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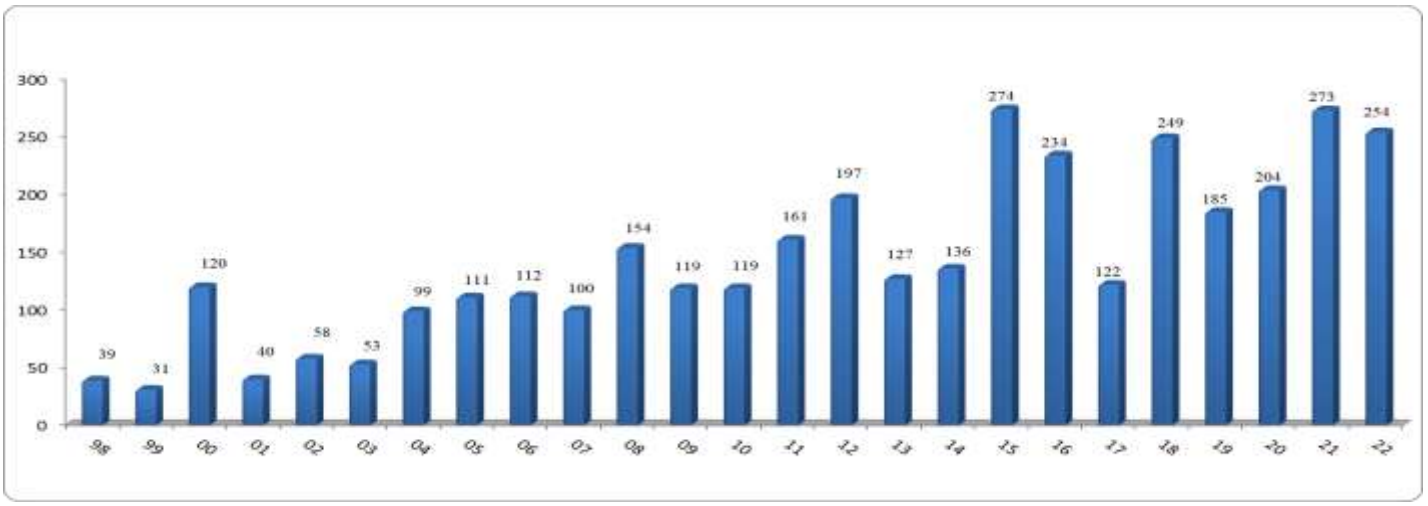

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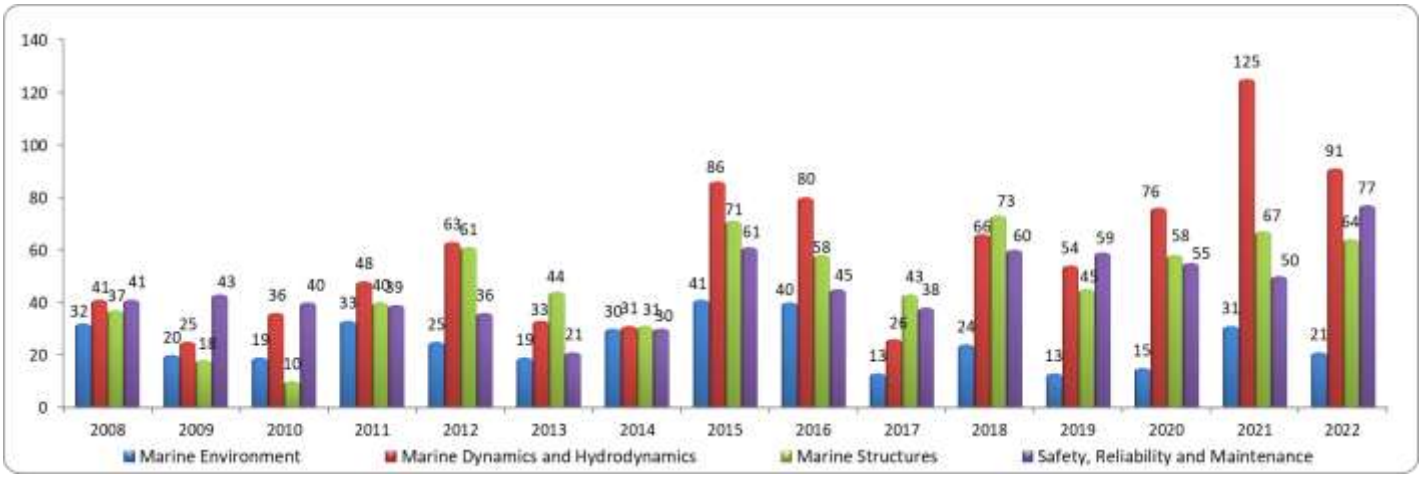

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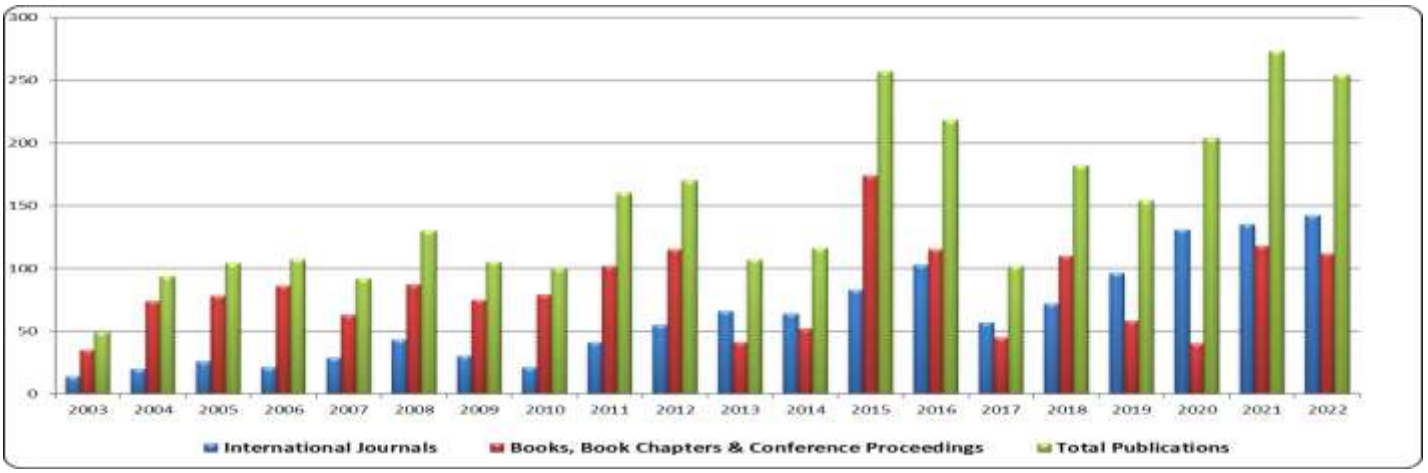

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0. EDITION OF JOURNALS AND BOOKS

0.1 Journals

0.1.1 Apostolakis, G.E., Guedes Soares, C., Kondo, S. and Mancini, G. (Editors) (1992 a 1994), *Reliability Engineering and System Safety.*

0.1.2 Apostolakis, G.E., Guedes Soares, C. and Kondo, S. (Editors) (1995 a 2004), *Reliability Engineering and System Safety.*

0.1.3 Apostolakis, G.E. and Guedes Soares, C. (Editors) (2005 a 2010), *Reliability Engineering and System Safety.*

0.1.4 Guedes Soares, C. (Editor) (2010-Present), *Reliability Engineering and System Safety.*

0.1.5 Guedes Soares, C. (Guest Editor) (1991), "Special Issue on Marine Structures", *Marine Structures*, Vol. 4, pp. 277-278.

0.1.6 Guedes Soares, C. (Guest Editor) (1995), "Special Issue on Reliability of Marine Structures", *Marine Structures*, Vol. 8, Issue 2, pp. 95-210.

0.1.7 Guedes Soares, C. (Guest Editor) (1996), "Special Issue on Reliability Methods for Ship Structural Design", *Marine Structures*, Vol. 9, Issues 3-4, pp. 283-518.

0.1.8 Dekker, R. and Guedes Soares, C. (Guest Editors) (1996), "Special Issue on Maintenance and Reliability", *Reliability Engineering and System Safety*, Vol. 51, Issue 3, pp. 221-356.

0.1.9 Leclerq, P.R. and Guedes Soares, C. (Guest Editors) (1997), "Special Issue on ESREL'94", *Reliability Engineering and System Safety*, Vol. 55, Issue 2, page 75.

0.1.10 Guedes Soares, C. and Harlow, D.G. (Guest Editors) (1997), "Special Issue on Reliability of Composite Materials Components", *Reliability Engineering and System Safety*, Vol. 56, Issue 3, pp. 181-182.

0.1.11 Watson, I.A. and Guedes Soares, C. (Guest Editors) (1997), "Special Issue on ESREL'95", *Reliability Engineering and System Safety*, Vol. 58, Issue 2, page 87.

0.1.12 Aven, T. and Guedes Soares, C. (Guest Editors) (1998), "Special Issue on Offshore Safety", *Reliability Engineering and System Safety*, Vol. 61, Issues 1-2, pp. 1-168.

0.1.13 Guedes Soares, C. (Guest Editor) (1999), "Special Issue on Loads on Marine Structures", *Marine Structures*, Vol. 12, Issue 3, pp. 129-209.

0.1.14 Guedes Soares, C. (Guest Editor) (2000), "Special Issue on Probabilistic based Models for Coastal Studies", *Coastal Engineering*, Vol.40, Issue 4, pp. 279-283.

0.1.15 Melchers, R. and Guedes Soares, C. (Guest Editors), (2001), "Special Issue on Risk Assessment of Engineering Facilities", *Reliability Engineering and Systems Safety"*, Vol. 74, Issue 3, pp. 223-364.

0.1.16 Frangopol, D. and Guedes Soares, C. (Guest Editors), (2001), "Special Issue on Reliability Oriented Optimal Structural Design", *Reliability Engineering and System Safety*, Vol. 73, Issue 3, pp. 195-301.

0.1.17 Guedes Soares, C. (Guest Editor) (2003), "Special Issue on Wave-Induced Loads in Marine Structures", *Marine Structures*, Vol. 16, Issue 2, March-April, pp. 95-182.

0.1.18 Schellin, T.E. and Guedes Soares, C. (Guest Editors) (2004), "Special Issue on Advanced Methods to Predict Wave-Induced Loads for High-Speed Ships" *Applied Ocean Research*, Vol. 26, Issue 6, pp. 239-240.

0.1.19 Pelletier, J.L. and Guedes Soares, C. (Guest Editors) (2004), "Special Issue on ESREL 2002", *Reliability Engineering and System Safety*, Vol. 84, Issue 1, Page 1.

0.1.20 Bedford, T., Van Gelder, P. and Guedes Soares, C. (Guest Editors) (2005), "Special Issue on ESREL 2003", *Reliability Engineering and System Safety*, Vol. 90, pp. 121-122.

0.1.21 Kolowrocki, K. and Guedes Soares, C. (Guest Editors) (2007) "Special Issue on ESREL 2005", *Reliability Engineering and System Safety*, Vol. 92, pp. 1597–1600.

0.1.22 Guedes Soares, C. (Guest Editor) (2008), "Special Issue on Hindcast of Dynamic Processes of the Ocean and Coastal Areas of Europe", *Coastal Engineering*, Vol. 55, Issue 11, pp. 825-826.

0.1.23 Guedes Soares, C. and Das, P. K. (Guest Editors) (2008), "Special Issue on Douglas Faulkner Symposium", *Journal Offshore Mechanics and Arctic Engineering*, Vol. 130, 020201 (1 page).

0.1.24 Guedes Soares, C. and Das, P. K. (Guest Editors) (2008), "Special Issue on Loads and Strength of Ship Structures", *Ships and Offshore Structures*, Vol. 3, Issue 4, pp. 267-268.

0.1.25 Guedes Soares, C. and Das, P. K. (Guest Editors) (2008), "Special Issue on Strength and Crashworthiness of Ship Structures", *International Shipbuilding Progress*, Vol. 55, Issue 1, pp. 1–2.

0.1.26 Papazoglou, I. A. and Guedes Soares, C. (Guest Editors) (2008), "Special Issue on Occupational Safety and Risk at ESREL 2006", *Safety Science*, Vol. 46, pp. 869-871.

0.1.27 Zio, E. and Guedes Soares, C. (Guest Editors) (2008), "Special Issue on ESREL 2006", *Journal of Risk and Reliability*, Vol. 222, Part. O.

0.1.28 Skjong, R. and Guedes Soares, C. (Guest Editors) (2008), "Special Issue on Safety in Maritime Transportation", *Reliability Engineering & System Safety*, Vol. 93, Issue 9, September, pp. 1289-1291.

0.1.29 Zio, E. and Guedes Soares, C. (Guest Editors) (2008), "Special Issue on Safety and Reliability for Managing Risk" *Reliability Engineering & System Safety*, Vol. 93, Issue 12, December, pp. 1779-1780.

0.1.30 Guedes Soares, C. and Rackwitz, R. (Guest Editors) (2009), "Special Issue on Structural Reliability at ESREL 2006", *Structural Safety*, Vol. 31, Issue 3, Page 213.

0.1.31 Guedes Soares, C. (Guest Editor) (2009), "Special Issue on IMAM 2007", *Journal of Engineering for the Maritime Environment*, Vol. 223, Issue 1, pp. 1-144.

0.1.32 Aven, T., Vinnem, J.E. and Guedes Soares, C. (Guest Editors) (2009), Special Issue on "ESREL 2007", *Reliability Engineering & System Safety*, Vol. 94, pp. 1369-1370.

0.1.33 Guedes Soares, C. and Zio, E. (Guest Editors) (2009), "Special Issue on Accident Modelling and Prevention at ESREL 2006", *Accident Analysis and Prevention*, Vol. 41, pp. 1131-1132.

0.1.34 Guedes Soares, C. (Guest Editor) (2010), *Reliability Engineering and System Safety*, Vol. 95, 1103 pages.

0.1.35 Guedes Soares, C. (Guest Editors) (2011), "Special Issue on Analysis and Design of Marine Structures", *Ship and Offshore Structures*, Vol. 6, Nº. 1-2, pp. 1.

0.1.36 Guedes Soares, C. and Fricke, W. (Guest Editors) (2013), "Advances in Marine Structures", *Ships and Offshore Structures*, Vol. 8, n.º 6, pp. 1-2. ISSN: 1744-5302.

0.1.37 Guedes Soares, C. and Romanoff, J. (2015), "Analysis and Design of Marine Structures", *Ships and Offshore Structures*, Vol. 10 (1), pp. 3.

0.1.38 Guedes Soares, C., Eatock-Taylor, R. and Ewans, K. (2015), "Safe offloading from floating LNG platforms", *Applied Ocean Rsearch*, Vol. 51, pp. 252-254.

0.1.39 Ramalhoto, M.F., Elsayed, E.A. and Wu, C-W. (Eds.) (2015), "A Tribute to George Box Statistical Methodologies and Applications - Special Issue", Vol. 12(1), pp. 1-3.

0.1.40 Guedes Soares, C. and Duan, WY. (2018), "Wave Loads and Motions of Ships and Offshore Structures", *Journal of Marine Science and Application*, Vol. 17, pp. 281-283.

0.1.41 Guedes Soares, C. and Lewis, M. (2018), "Wave and Tidal Energy", Energies, Vol. 11, pp. 605.

0.1.42 Guedes Soares, C. (2019), "Special Issue Honoring Prof. Torgeir Moan", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 141, 030301.

0.1.43 Garbatov, Y. (2020), "Special Issue: Carlos Guedes Soares Honoring Symposium", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 142(3), 030301 (1 page).

0.1.44 Ponce de Leon, S., Young, I.R., Waseda, T. and Osborne, A.R. (2022), "Special Issue: Extreme Waves", *Journal of Marine Science and Engineering*, Vol. 10, 697.

0.1.45 Parunov, J. and Garbatov, Y. (2022), "Special Issue: Ship Structures", *Journal of Marine Science and Engineering*, Vol. 10, 374.

0.2 Books

0.2.1 Guedes Soares, C. (Ed.) (1987), *Design of Ships and Marine Structures*, Naval Architecture and Marine Engineering in Portugal (in Portuguese), Vol. I, Lisbon, (ISBN: 972-8348-00-2).

0.2.2 Guedes Soares, C. (Ed.) (1987), *Maritime Transport and Shipyards*, Naval Architecture and Marine Engineering in Portugal (in Portuguese), Vol. II, Lisbon, (ISBN: 972-8348-01-0).

0.2.3 Guedes Soares, C. (Ed.) (1988), *The Achievements of Portuguese Engineering*, Naval Architecture and Marine Engineering in Portugal (in Portuguese), Vol. III, Lisbon, (ISBN: 972-8348-02-9).

0.2.4 Guedes Soares, C. (Ed.) (1989), *Maritime Safety*, Naval Architecture and Marine Engineering in Portugal (in Portuguese), Vol. IV, Lisbon, (ISBN: 972-8348-03-7).

0.2.5 Guedes Soares, C. (Ed.) (1989), *Maritime Safety*, Naval Architecture and Marine Engineering in Portugal (in Portuguese), Vol. V, Lisbon, (ISBN: 972-8348-04-5)

0.2.6 Guedes Soares, C. (Ed.) (1989), *The Teaching of Naval Architecture and Marine Engineering*, Naval Architecture and Marine Engineering in Portugal (in Portuguese), Vol. VI, Lisbon, (ISBN: 972-8348-05-3).

0.2.7 Guedes Soares, C. (Ed.) (1990), *The Merchant Fleet*, Naval Architecture and Marine Engineering in Portugal (in Portuguese), Vol. VII, Lisbon, (ISBN: 972-8348-06-1).

0.2.8 Guedes Soares, C. (Ed.) (1990), *The Fishing Fleet*, Naval Architecture and Marine Engineering in Portugal (in Portuguese), Vol. VIII, Lisbon, (ISBN: 972-8348-07-X).

0.2.9 Guedes Soares, C. (Ed.) (1992), *Exploitation of the Portuguese Exclusive Economic Zone*, Naval Architecture and Marine Engineering in Portugal (in Portuguese), Vol. IX, Lisbon, (ISBN: 972-8348-08-8).

0.2.10 Guedes Soares, C. (Ed.) (1995), *The Portuguese Maritime Industry in an European Context*, Naval Architecture and Marine Engineering in Portugal (in Portuguese), Vol. X, IST, Lisbon, 585 pages, (ISBN: 972-8348-09-6).

0.2.11 Guedes Soares, C. (Ed.) (1997), *Probabilistic Methods for Structural Design*, Kluwer Academic Publishers, London, Vol. 1, 402 pages, (ISBN: 0-7923-4670-X).

0.2.12 Guedes Soares, C. (Ed) (1997), *Advances in Safety and Reliability*, Pergamon, Lisbon, Vol. 1 (744), Vol. 2 (876) and Vol. 3 (803), 2430 pages, (ISBN: 0-08-042835-5).

0.2.13 Guedes Soares, C. and Mira Monerris, A. (Eds.) (1997), *Safety, Quality and Environment in the Maritime Industries* (in Portuguese), Instituto Superior Técnico, 801 pages, (ISBN: 972-8348-10-X).

0.2.14 Guedes Soares, C. (Ed.) (1998), *Risk and Reliability in Marine Technology*, Balkema, Rotterdam, Netherlands, Vol. 1, 472 pages, (ISBN: 90-5410-6840).

0.2.15 Guedes Soares, C. and Brodda, J. (Eds.) (1999), *Application of Information Technologies to the Maritime Industries*, Edições Salamandra, Lda., Lisbon, Vol. 1, 368 pages, (ISBN: 972-689-157-4).

0.2.16 Guedes Soares, C. and Beirão Reis, J. (Eds.) (2000), *The Sea and the Challenges of the Future* (in Portuguese), Edições Salamandra, Lda., Lisbon, Vol. XI, 693 pages, (ISBN: 972-689-179-5).

0.2.17 Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M.B. (Eds.) (2002), *The Sea, Source of Sustainable Development* (in Portuguese), Edições Salamandra, Lda., Lisbon, Vol. XII, 595 pages, (ISBN: 972-689-215-5).

0.2.18 Guedes Soares, C. and Brito, V.G. (Eds.) (2004), *Maritime Activities and Engineering (in Portuguese)*, Edições Salamandra, Lda., Lisbon, Vol. XIII, 788 pages, (ISBN: 972-68-229-5).

0.2.19 Guedes Soares, C., Teixeira, A.P. e Antão, P. (Eds) (2005), *Analysis and Management of Risk, Safety and Reliability (in Portuguese)*, Edições Salamandra, Lda., Lisbon, Vol. I (596 pages) e Vol. II (632 pages), (ISBN 972-689-230-9)

0.2.20 Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.) (2005) *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Taylor & Francis Group, London, UK, Vol. 1 (805), Vol. 2 (965), 1770 pages, (ISBN: 0-415-39036-2).

0.2.21 Guedes Soares, C. and Brito, V.G. (Eds.) (2006), *Innovation and Development in Maritime Activities*, (in Portuguese), Edições Salamandra, Lda., Lisbon, Vol. XIV, 928 pages, (ISBN: 978-972-689-232-8).

0.2.22 Guedes Soares, C. and Zio, E. (Eds.) (2006), *Safety and Reliability for Managing Risk*, Taylor & Francis Group, London, UK, Vol. I (854), Vol. II (927) and Vol. III (963), 2817 pages, (ISBN: 0-415-41620-5).

0.2.23 Dubrovsky, V., Matveyev, K. and Sutulo, S. (Eds.) (2007), *Small Waterplane Area Ships*, Backbone Publishing Company, Paramus, NJ (USA), 255 pages, (ISBN: 978-0974201931).

0.2.24 Guedes Soares, C., Teixeira, A.P. e Antão, P. (Eds.) (2007), *Industrial and Public Risks*, (in Portuguese), Edições Salamandra, Lda., Lisbon, Vol. II (759 pages) e Vol. II (622 pages), (ISBN 972-689-231-1).

0.2.25 Guedes Soares, C. and Das., P.K. (Eds.) (2007), *Advancements in Marine Structures*, Taylor & Francis Group, London, UK, Vol. 1 (578 pages), (ISBN: 978-0-415-43725-7).

0.2.26 Guedes Soares, C. and Kolev, P. (Eds.) (2008), *Maritime Industry, Ocean Engineering and Coastal Resources*, Taylor & Francis Group, London, UK, Vol. I (661 pages.) e Vol. II (518 pages), (ISBN: 978-0-415-45523-7)

0.2.27 Guedes Soares, C. and Costa Monteiro, C. (Eds.) (2008), *The Portuguese Maritime Sector* (in Portuguese), Vol. XV, Edições Salamandra, Lda., Lisbon, 958 pages, (ISBN: 978-972-689-237-3).

0.2.28 Martorell, S., Guedes Soares, C. and Barnett, J. (Eds.) (2008), *Safety, Reliability and Risk Analysis – Theory, Methods and Applications*, Taylor & Francis Group, London, UK, Vol. I (853), Vol. II (842), Vol. III (836) and Vol. IV (820), 4 Volumes, 3351 pages, (ISBN: 978-0-415-48513-5).

0.2.29 Guedes Soares and Das, P.K. (Eds.) (2009), *Analysis and Design of Marine Structures*, Taylor & Francis Group, 552 pages, (ISBN: 978-0-415-54934-9).

0.2.30 Guedes Soares, C., Jacinto, M.C., Teixeira, A.P. and Antão, P. (2009), *Industrial and Emergent Risks*, (in Portuguese), Edições Salamandra, Lda., Vol. 1 (608 pages) e Vol. 2 (674), 1282 pages, (ISBN: 978-972-689-233-5)

0.2.31 Bris, R., Guedes Soares, C. and Martorell, S. (Eds.) (2010), *Reliability, Risk and Safety: Theory and Applications*, Taylor & Francis Group, London, UK, Vol. 1 (799 pages), Vol. 2 (676 pages) e Vol. 3 (888 pages), 3 Volumes, 2363 pages, (ISBN: 978-0-415-55509-8).

0.2.32 Guedes Soares, C. and Parunov, J. (Eds.) (2010), *Advanced Ship Design for Pollution Prevention*, Taylor & Francis Group, London, UK, 317 pages, (ISBN: 978-0-415-58477-7).

0.2.33 Guedes Soares, C., (Ed.) (2010), *Risk Assessment, Safety and Reliability*, (in Portuguese), Edições Salamandra, Lda., 259 pages, (ISBN: 978-972-689-238-0).

0.2.34 Guedes Soares, C., (Ed.) (2010), *Safety and Reliability of Industrial Products, Systems and Structures*, Taylor & Francis Group, London, UK, 459 pages, (ISBN: 978-0-415-66392-2).

0.2.35 Guedes Soares, C. and Fricke, W. (Eds.) (2011), *Advances in Marine Structures*, Taylor & Francis Group, London, UK, 729 pages, (ISBN: 978-0-415-67771-4).

0.2.36 Quaresma Dias, J.C. (2011), *The National Maritime and Port Sector: Logistics and Economy*, (in Portuguese), Edições Salamandra, Lda., 317 pages, (ISBN: 978-972-689-243-4).

0.2.37 Guedes Soares, C., Garbatov, Y., Fonseca, N. and Teixeira, A.P. (Eds.), (2011), *Marine Technology and Engineering*, Taylor & Francis Group, London, UK, 1450 pages, (ISBN: 978-0-415-69808-5).

0.2.38 Bérenguer, C., Grall, A. and Guedes Soares, C. (Eds.), (2012), *Advances in Safety, Reliability and Risk Management*, Taylor & Francis Group, London, UK, 508 pages, (ISBN: 978-0-415-68379-1).

0.2.39 Guedes Soares, C., Teixeira, A.P. and Jacinto, M.C., (2012), *Risk, Safety and Sustainability (in Portuguese)*, Edições Salamandra, Lda., Vol. 1 (632 pages) e Vol. 2 (639), 1271 pages, (ISBN: 978-972-689-247-2).

0.2.40 Guedes Soares, C., Garbatov, Y., Sutulo, S. and Santos, T.A. (Eds.), (2012), *Maritime Engineering and Technology*, Taylor & Francis Group, London, UK, 684 pages, (ISBN: 978-0-415-62146-5).

0.2.41 Rizzuto, E. and Guedes Soares, C., (Eds.), (2012), *Sustainable Maritime Transportation and Exploitation of Sea Resources*, Taylor & Francis Group, London, UK, 1117 pages, (ISBN: 978-0-415-62081-9).

0.2.42 Bérenguer, C., Grall, A. and Guedes Soares, C., (Eds.), (2012), *Advances in Safety, Reliability and Risk Management*, Taylor & Francis Group, London, UK, 508 pages, (ISBN: 978-0-415-68379-1).

0.2.43 Quaresma Dias, J. C., (Ed.), (2012), *The Maritime and Port National Sector - Logistics and Economy, Strategic Thoughts (2033-2011) (in Portuguese)*, Edicoes Salamandra, Lda., Portugal.

0.2.44 Guedes Soares, C. and Romanoff, J. (Eds), (2013), *Analysis and Design of Marine Structures*, Taylor & Francis Group, London, UK, 592 pages, (ISBN: 978-1-138-00045-2).

0.2.45 Guedes Soares, C. and López Peña, F., (Eds.), (2014), *Developments in Maritime Transportation and Exploitation of Sea Resources*, Taylor & Francis Group, London, UK, 1115 pages, (ISBN: 978-1-138-00124-4).

0.2.46 Valadas Monteiro, P. (2014), *Enhancing the Competitiveness of Peripheral Coastal Regions - Moving from potential to success*, LAP LAMBERT Academic Publishing, (ISBN: 978-3-659-45545-2).

0.2.47 Guedes Soares, C. and Santos T. A., (Eds.), (2015), *Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, 1420 pages, ISBN: 978-1-138-02727-5.

0.2.48 Guedes Soares, C. (Eds.), (2015), *Renewable Energies Offshore*, Taylor & Francis Group, London, UK, 1013 pages, ISBN: 978-1-138-028715.

0.2.49 Guedes Soares, C. and Shenoi, R.A. (Eds.), (2015), *Analysis and Design of Marine Structures*, Taylor & Francis Group, London, UK, 800 pages, ISBN: 978-1-138-027893.

0.2.50 Guedes Soares, C., Dejhalla, R. and Pavletić, D. (Eds.), (2015), *Towards Green Maritime Technology and Transport*, Taylor & Francis Group, London, UK, 926 pages, ISBN: 978-1-138-028876.

0.2.51 Guedes Soares, C. and Santos T. A., (Eds.), (2016), *Maritime Technology and Engineering 3*, Taylor & Francis Group, London, UK, 1220 pages, ISBN: 978-1-138-03000-8.

0.2.52 Guedes Soares, C., (Eds), (2016), *Progress in Renewable Energies*, Taylor & Francis Group, London, UK, 890 pages, ISBN: 978-1-138-62627-0.

0.2.53 Guedes Soares, C. and Garbatov, Y., (Eds), (2017), *Progress in the Analysis and Design of Marine Structures*, Taylor & Francis Group, London, UK, 952 pages, ISBN: 978-1-138-06907-7.

0.2.54 Guedes Soares, C. and Teixeira A. P., (Eds.), (2017), *Maritime Transportation and Harvesting of Sea Resources*, Taylor & Francis Group, London, UK, 1298 pages, ISBN: 978-0-8153-7993-5.

0.2.55 Mendes, M.J.G.C. (2017), *Multi-agent Approach to Fault Tolerant Control Systems. A Conceptual Model to the Industrial Internet of Things*, Novas Edições Académicas, OmniScriptum Publishing Group, 244 pages. ISBN: 978-620-2-04429-5.

0.2.56 Guedes Soares, C. and Santos T. A., (Eds.). (2018), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, 715 pages. ISBN: 978-1-138-58539-3.

0.2.57 Guedes Soares, C. (Ed.) (2019), *Advances in Renewable Energies Offshore*, Taylor & Francis Group, London, UK, 917 pages. ISBN: 978-1-138-58535-5.

0.2.58 Parunov, J. and Guedes Soares, C. (Eds.) (2019), *Trends in Analysis and Design of Marine Structures*, Taylor & Francis Group, London, UK, 651 pages. ISBN: 978-0-367-27809-0

0.2.59 Guedes Soares, C. (Ed.) (2020), *Developments in the Collision and Grounding of Ships and Offshore Structures*, Taylor & Francis Group, London, UK, 393 pages, ISBN 978-0-367-43313-0.

0.2.60 Santos, T.A. and Guedes Soares, C. (Eds.). (2020), *Short Sea Shipping in the Age of Sustainable Development and Information Technology*, Routledge, Taylor & Francis Group, London, UK, ISBN: 97 8-0-367-23242-9.

0.2.61 Georgiev, P. and Guedes Soares C., (Eds.) (2020), *Sustainable Development and Innovations in Marine Technologies*, Taylor & Francis Group, London, UK, 691 pages, ISBN: 978-0-367-40951-7.

0.2.62 Guedes Soares, C. & Santos T.A. (Eds.) (2021), *Developments in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, 850 pages, ISBN: 978-0-367-77377-9.

0.2.63 Guedes Soares, C. (Ed.) (2021), *Developments in Renewable Energies Offshore*, Taylor & Francis Group, London, UK, 802 pages, ISBN: 978-0-367-68131-9.

0.2.64 Amdahl, J. & Guedes Soares C. (Eds.) (2022), *Developments in the Design and Analysis of Marine Structures*, Taylor & Francis Group, London, UK, (572 pages), (ISBN: 978-1-032-13665-3).

0.2.65 Guedes Soares, C. & Santos T.A. (Eds.) (2022), *Trends in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, Vol 1 - 636 pages & Vol 2 - 618 pages, ISBN: 978-1-032-33572-8.

0.3 Conference Proceedings

0.3.1 Guedes Soares, C., Ellinas, C.P., Rhee, H.C., Torhaug, M., Salama, M.M. and Chakrabarti, S.K. (Eds.), *Proceedings of the 9th International Conference on Offshore Mechanics and Arctic Engineering*, Vol. II, ASME, New York, 1990.

0.3.2 Guedes Soares, C., Ostergaard, C., Baker, M.J., Pittaluga, A., Huther, M. and Thoft-Christensen, P. (Eds.), *Proceedings of the 10th International Conference on Offshore Mechanics and Arctic Engineering*, Vol. II, ASME, New York, 1991.

0.3.3 Guedes Soares, C., Murotsu, Y., Pittaluga, A., Spencer, J.S. and Stahl, B. (Eds.), *Proceedings of the 11th International Conference on Offshore Mechanics and Arctic Engineering*, Vol. II, ASME, New York, 1992.

0.3.4 Guedes Soares, C., Baker, M.J., Labeyrie, J., Lacasse, S. and Pittaluga, A. (Eds.), *Proceedings of the 12th International Conference on Offshore Mechanics and Arctic Engineering*, Vol. II, ASME, New York, 1993, 426 pages.

0.3.5 Guedes Soares, C., Bea, R., Dover, W. and Gierlinski, J. (Eds.), *Proceedings of the 13th International Conference on Offshore Mechanics and Arctic Engineering*, Vol. II, ASME, New York, 1994, 558 pages.

0.3.6 Guedes Soares, C. et al (Ed.), *Proceedings of the 14th International Conference on Offshore Mechanics and Arctic Engineering*, Safety and Reliability, ASME, New York, 1995, Vol. II, 558 pages.

0.3.7 Guedes Soares, C., Shetty, N.K., Bea, R., Leira, B.J. and Vinnem, J.E. (Eds.), *Proceedings of 15th International Conference on Offshore Mechanics and Arctic Engineering*, ASME, New York, 1996, Vol. II, 525 pages.

0.3.8 Guedes Soares, C., Naess, A., Arai, M. and Shetty, N. (Eds.), *Proceedings of the 16th International Conference on Offshore Mechanics and Arctic Engineering*, ASME, New York, 1997, Vol. II, 339 pages.

0.3.9 Guedes Soares, C. (Ed.), *Proceedings of the 17th International Conference on Offshore Mechanics and Arctic Engineering*, Safety and Reliability Symposium (CD-ROM), ISBN-0-7918-1952-3, ASME, New York, 1998.

0.3.10 Guedes Soares, C. (Ed.), *Proceedings of the 18th International Conference on Offshore Mechanics and Arctic Engineering Safety and Reliability Symposium* (CD-ROM), ISBN- 079181964-7, ASME, New York, 1999.

0.3.11 Guedes Soares, C. (Ed.), *Proceedings of the 19th International Conference on Offshore Mechanics and Arctic Engineering (ETCE / OMAE'2000 Joint Conference – Energy for the New Millennium)* Safety and Reliability Symposium (CD-ROM), ISBN – 0-7918-1987-6, ASME, New York, 2000.

0.3.12 Guedes Soares, C. (Ed.), *Technologies for Ocean and Coastal Survey*, Proceedings of the EUROMAR Workshop, 18-19 November, 1999, Brussels.

0.3.13 Guedes Soares, C. (Ed.), *Proceedings of the 20th International Conference on Offshore Mechanics and Arctic Engineering – Towards 3000* (*OMAE'2001*), Safety and Reliability Symposium (CD-ROM), ISBN 0-7918-3529-4, ASME, New York, 2001.

0.3.14 Guedes Soares, C. (Ed.), *Proceedings of the 21st International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2002)*, Safety and Reliability Symposium (CD-ROM), ISBN, ASME, New York, 2002.

0.3.15 Guedes Soares, C. (Ed.), *Proceedings of the 22nd International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2003),* Safety and Reliability Symposium (CD-ROM), ISBN, ASME, New York, 2003.

0.3.16 Guedes Soares, C, (Ed.), *Proceedings of the 23rd International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2004)*, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2004.

0.3.17 Guedes Soares, C. (Ed.), *Proceedings of the 24th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2005)*, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2005.

0.3.18 Guedes Soares, C. (Ed.), *Proceedings of the 25th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2006)*, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2006.

0.3.19 Guedes Soares, C. (Ed.), *Proceedings of the 26th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2007)*, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2007.

0.3.20 Guedes Soares, C. (Ed.), *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2008)*, Structures, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2008.

0.3.21 Guedes Soares, C. (Ed.), *Proceedings of the 28th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2009)*, Structures, Safety and Reliability Symposium (CD-ROM), ISBN 0-7918-3821-8, ASME, New York, 2009.

0.3.22 Guedes Soares, C. (Ed.), *Proceedings of the 29th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2010)*, Structures, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2010.

0.3.23 Guedes Soares, C. (Ed.), *Proceedings of the 30th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2011)*, Structures, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2011.

0.3.24 Guedes Soares, C. (Ed.), *Proceedings of the 31st International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2012)*, Structures, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2012.

0.3.25 Guedes Soares, C. (Ed.), *Proceedings of the 32nd International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2013)*, Structures, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2013.

0.3.26 Guedes Soares, C. (Ed.), *Proceedings of the 33rd International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2014)*, Structures, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2014.

0.3.27 Guedes Soares, C. (Ed.), *Proceedings of the 34th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2015)*, Structures, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2015.

0.3.28 Guedes Soares, C. (Ed.), *Proceedings of the 19th International Ship and Offshore Structures Congress (ISSC 2015)*, Taylor & Francis Group, London, UK, 2015. ISBN: 978-1-138-028951

0.3.29 Guedes Soares, C. (Ed.), *Proceedings of the 35th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2016)*, Structures, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2016.

0.3.30 Guedes Soares, C. (Ed.), *Proceedings of the 36th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2017)*, Structures, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2017.

0.3.31 Guedes Soares, C. (Ed.), *Proceedings of the 37th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2018)*, Structures, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2018.

0.3.32 Guedes Soares, C. (Ed.), *Proceedings of the 38th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2019)*, Structures, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2019.

0.3.33 Guedes Soares, C. (Ed.), *Proceedings of the 39th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2020)*, Structures, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2020.

0.3.34 Guedes Soares, C. (Ed.), *Proceedings of the 40th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2021)*, Structures, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2021.

0.3.35 Guedes Soares, C. (Ed.), *Proceedings of the 41st International Conference on Offshore Mechanics and Arctic Engineering (OMAE'2022)*, Structures, Safety and Reliability Symposium (CD-ROM), ASME, New York, 2022.

1. Marine Environment

1.1 Papers in Journals

1.1.1 Guedes Soares, C. (1984), "Representation of Double-Peaked Sea Wave Spectra", *Ocean Engineering*, Vol. 11, Issue 2, pp. 185-207.

1.1.2 Guedes Soares, C. (1986), "Assessment of the Uncertainty in Visual Observations of Wave Height", *Ocean Engineering*, Vol. 13, Issue 1, pp. 37-56.

1.1.3 Guedes Soares, C. (1986), "Calibration of Visual Observations of Wave Period", *Ocean Engineering*, Vol. 13, Issue 6, pp. 539-547.

1.1.4 Costa, M.D.S., Guedes Soares, C. and Lopes, L.C. (1988), "Wave Climate Modelling for Engineering Purposes" (in Portuguese), *Anais do Instituto Hidrográfico*, Issue 9, pp. 69-75.

1.1.5 Guedes Soares, C. (1991), "On the Occurrence of Double Peaked Wave Spectra", *Ocean Engineering*, Vol. 18, Issue 1-2, pp. 167-171.

1.1.6 Guedes Soares, C. and Nolasco, M.C. (1992), "Spectral Modelling of Sea States with Multiple Wave Systems", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 114, pp. 278-284.

1.1.7 Guedes Soares, C. (1994), "Contribution of the WAVEMOD Project to the Understanding of the Wave Conditions off the Coast of Portugal", *Gaia*, Issue 8, pp. 75-78.

1.1.8 Teixeira, J.C., Abreu, M.P. and Guedes Soares, C. (1995), "Uncertainty of Ocean Wave Hindcasts Due to Wind Modelling", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 117, pp. 294-297.

1.1.9 Sebastião, P.J. and Guedes Soares, C. (1995), "Modelling the Fate of Oil Spills at Sea", *Spill Science and Technology Bulletin*, Vol. 2, Issues 2-3, pp. 121-131.

1.1.10 Guedes Soares, C. (1996), "Probabilistic Wave Modelling in Coastal Waters", *Técnica*, Issue 1/96, pp. 31-42.

1.1.11 Guedes Soares, C. and Ferreira, A.M. (1996), "Representation of Non-Stationary Time Series of Significant Wave Height with Autoregressive Models", *Probabilistic Engineering Mechanics*, Vol. 11, pp. 139-148.

1.1.12 Guedes Soares, C. and Henriques, A.C. (1996), "Statistical Uncertainty in Long-Term Distributions of Significant Wave Height", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 11, pp. 284-291.

1.1.13 Guedes Soares, C., Ferreira, A.M. and Cunha, C. (1996), "Linear Models of the Time Series of Significant Wave Height in the Southwest Coast of Portugal", *Coastal Engineering*, Vol. 29, pp. 149-167.

1.1.14 Prevosto, M., Krogstad, H.E., Barstow, S.F. and Guedes Soares, C. (1996), "Observations of the High-Frequency Range of the Wave Spectrum", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 118, pp. 89-95.

1.1.15 Holthuijsen, L.H., Booij, N., Van Endt, M., Caires, S. and Guedes Soares, C. (1997), "Assimilation of Buoy and Satellite Data in Wave Forecasts with Integral Control Variables", *Journal of Marine Systems*, Vol. 13, pp. 21-31.

1.1.16 Ferreira, J.A. and Guedes Soares, C. (1998), "An Application of the Peaks Over Threshold Method to Predict Extremes of Significant Wave Height", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 120, Issue 3, pp. 165-176.

1.1.17 Guedes Soares, C. (1998), "Sea-Related Activities", *Sea Technology*, Vol. 39, Issue 8, pp. 47-49.

1.1.18 Ferreira, A. and Guedes Soares, C. (1999), "Modelling the Long-Term Distribution of Significant Wave Height with the Beta and Gamma Models", *Ocean Engineering*, Vol. 26, Issue 8, pp. 713-725.

1.1.19 Cunha, C. and Guedes Soares, C. (1999), "On the Choice of Data Transformation for Modelling Time Series of Significant Wave Height", *Ocean Engineering*, Vol. 26, pp. 489-506.

1.1.20 Rodriguez, G.R., Guedes Soares, C. and Machado, U. (1999), "Uncertainty of the Sea State Parameters resulting from the Methods of Spectral Estimation", *Ocean Engineering*, Vol. 26, Issue 10, pp. 991-1002.

1.1.21 Rodriguez, G.R. and Guedes Soares, C. (1999), "The Bivariate Distribution of Wave Heights and Periods in Mixed Sea States", *Journal of Offshore Mechanics and Arctic Engineering*, Vol.121, pp. 102-108.

1.1.22 Rodriguez, G.R. and Guedes Soares, C. (1999), "Uncertainty in the Estimation of the Slope of the High Frequency Tail of Wave Spectra", *Applied Ocean Research*, Vol. 21, Issue 4, pp. 207-213.

1.1.23 Rodriguez, G.R. and Guedes Soares, C. (1999), "A Criterion for the Automatic Identification of Multimodal Sea Wave Spectra", *Applied Ocean Research*, Vol. 21, Issue 6, pp. 329-333.

1.1.24 Rodriguez, G.R., Guedes Soares, C. and Ocampo-Torres F.J. (1999), "Experimental Evidence of the Transition Between Power Law Models in the High Frequency Range of the Gravity Wave Spectrum", *Coastal Engineering*, Vol. 38, pp. 249-259.

1.1.25 Cunha, C. and Guedes Soares, C. (2000), "Bivariate Autoregressive Models for the Time Series of Significant Wave Height and Mean Period", *Coastal Engineering*, Vol. 40, Issue 4, pp. 297-311.

1.1.26 Sebastião, P., Guedes Soares, C. and Booij, N. (2000), "Wave Hindcasting off the Coast of Portugal", *Coastal Engineering*, Vol. 40, Issue 4, pp. 411-425.

1.1.27 Scotto, M.G. and Guedes Soares, C. (2000), "Modelling the Long-Term Time Series of Significant Wave Height with Non-Linear Threshold Models", *Coastal Engineering*, Vol. 40, Issue 4, pp. 313-327.

1.1.28 Ferreira, J.A. and Guedes Soares, C. (2000), "Modelling Distributions of Significant Wave Height", *Coastal Engineering*, Vol. 40, Issue 4, pp. 361-374.

1.1.29 Paillard, M., Prevosto, M., Barstow, S.F. and Guedes Soares, C. (2000), "Field Measurements of Coastal Waves and Currents in Portugal and Greece", *Coastal Engineering*, Vol. 40, Issue 4, pp. 285-296.

1.1.30 Nieto Borge, J.C. and Guedes Soares, C. (2000), "Analysis of Directional Wave Fields Using X-Band Navigation Radar", *Coastal Engineering*, Vol. 40, Issue 4, pp. 375-391.

1.1.31 Sauvaget, P., David, E. and Guedes Soares, C. (2000), "Modelling Tidal Currents on the Coast of Portugal", *Coastal Engineering*, Vol. 40, Issue 4, pp. 393-409.

1.1.32 Rodriguez, G.R., Guedes Soares, C. and Ferrer, L. (2000), "Wave Group Statistics of Numerically Simulated Mixed Sea States", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 122, pp. 282-288.

1.1.33 Guedes Soares, C. and Scotto, M. (2001), "Modelling Uncertainty in Long-Term Predictions of Significant Wave Height", *Ocean Engineering*, Vol. 28, Issue 3, pp. 329-342.

1.1.34 Rodriguez, G.R. and Guedes Soares, C. (2001), "Correlation between Successive Wave Heights and Periods in Mixed Sea States", *Ocean Engineering*, Vol. 28, Issue 8, pp. 1009-1030.

1.1.35 Rodriguez, G.R., Guedes Soares, C, Pacheco, M. and Peréz-Martell, E. (2002), "Wave Height Distribution in Mixed Sea States", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 124, Issue 1, pp. 34-40.

1.1.36 Ferreira, J.A. and Guedes Soares, C. (2002), "Modelling Bivariate Distributions of Significant Wave Height and Mean Wave Period", *Applied Ocean Research*, Vol. 24, Issue 1, pp. 31-45.

1.1.37 Veltcheva, A.D., Cavaco, P. and Guedes Soares, C. (2003), "Comparison of Methods for Calculation of the Wave Envelope", *Ocean Engineering*, Vol. 30, pp. 937-948.

1.1.38 Guedes Soares, C. and Carvalho, A.N. (2003), "Probability Distributions of Wave Heights and Periods in Measured Combined Sea States from the Portuguese Coast", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 125, pp. 198-204.

1.1.39 Guedes Soares, C., Cherneva, Z. and Antão, E.M. (2003), "Characteristics of Abnormal Waves in North Sea Storm Sea States", *Applied Ocean Research*, Vol. 25, Issue 6, pp. 337-344.

1.1.40 Rodriguez, G.R., Guedes Soares, C. and Pacheco, E.M. (2004), "Wave Period Distribution in Mixed Sea States", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 126, pp. 105-112.

1.1.41 Guedes Soares, C., Cherneva, Z. and Antão, E.M. (2004), "Steepness and Asymmetry of the Largest Waves in Storm Sea States", *Ocean Engineering*, Vol. 31, pp. 1147-1167.

1.1.42 Guedes Soares, C., Cherneva, Z. and Antão, E.M. (2004), "Abnormal Waves during Hurricane Camille", *Journal of Geophysical Research*, Vol. 109, pp. 1-7.

1.1.43 Guedes Soares, C. and Scotto, M.G. (2004), "Application of the *r* Largest Order Statistics Model for Long-Term Predictions of Significant Wave Height", *Coastal Engineering*, Vol. 51, pp. 387-394.

1.1.44 Veltcheva, A.D. and Guedes Soares, C. (2004), "Identification of the Components of Wave Spectra by the Hilbert Huang Transform Method", *Applied Ocean Research*, Vol. 26, pp. 1-12.

1.1.45 Izquierdo, P., Guedes Soares, C., Nieto Borge, J.C. and Rodriguez, G.R. (2004), "A Comparison of Sea-state Parameters from Nautical Radar Images and Buoy Data, *Ocean Engineering*, Vol. 31, pp. 2209-2225.

1.1.46 Nieto Borge, J.C., Rodriguez, G.R., Hessner, K. and Izquierdo, P. (2004), "Inversion of Marine Radar Images for Surface Wave Analysis", *Journal of Atmospheric and Oceanic Technology*, Vol. 21, pp.1291-1300.

1.1.47 Izquierdo, P. and Guedes Soares, C. (2005), "Analysis of Sea Waves and Wind from X-Band Radar", *Ocean Engineering*, Vol. 32, Issues 11-12, pp. 1404-1419.

1.1.48 Guedes Soares, C. and Cherneva, Z. (2005), "Spectrogram Analysis of the Time Frequency Characteristics of Ocean Wind Waves", *Ocean Engineering*, Vol. 32, Issues 14-15, pp. 1643-1663.

1.1.49 Izquierdo, P., Nieto Borge, J.C., Guedes Soares, C., Sanz González, R. and Rodríguez, G.R. (2005), "Comparison of Wave Spectra from Nautical Radar Images and Scalar Buoy Data", *Journal of Waterway, Port, Coastal and Ocean Engineering*, Vol. 131, Issue 3, pp. 123-132.

1.1.50 Rodriguez, G.R., Pacheco, M., and Guedes Soares, C. (2005), "Maximum Wave Height Distribution in a Sea State: Effects of Record Length and Spectral Peakedness", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 127, Issue 4, pp. 340-344.

1.1.51 Slunyaev, A., Pelinovsky, E. and Guedes Soares, C. (2005), "Modeling Freak Waves from the North Sea", *Applied Ocean Research*, Vol. 27, pp. 12-22.

1.1.52 de León S.P. and Guedes Soares, C. (2005), "On the Sheltering Effect of Islands in Ocean Wave Models", *Journal of Geophysical Research*, Vol. 110, C09020.

1.1.53 Guedes Soares, C. and Pascoal, R. (2005), "On the Profile of Large Ocean Waves", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 127, Issue 4, pp. 306-314.

1.1.54 Cherneva, Z., Petrova, P.G., Andreeva, N. and Guedes Soares, C. (2005), "Probability Distributions of Peaks, Troughs and Heights of Wind Waves Measured in the Black Sea Coastal Zone", *Coastal Engineering*, Vol. 52, Issue 7, pp. 599-615.

1.1.55 Guedes Soares, C. and de Pablo, H. (2006), "Experimental Study of the Transformation of Wave Spectra by a Uniform Current", *Ocean Engineering*, Vol. 33, Issues 3-4, pp. 293-310.

1.1.56 Guedes Soares, C. and Neves, S. (2006), "Modelling Tidal Current Profiles by Means of Empirical Orthogonal Functions", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 128, pp. 184-190.

1.1.57 Ewans, K.C., Bitner-Gregersen, E. and Guedes Soares, C. (2006), "Estimation of Wind-Sea and Swell Components in a Bimodal Sea State", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 128, Issue 4, pp. 265-270.

1.1.58 Sebastião, P. and Guedes Soares, C. (2006), "Uncertainty in Predictions of Oil Spill Trajectories in a Coastal Zone", *Journal of Marine Systems*, Vol. 63, pp. 257-269.

1.1.59 Petrova, P.G, Cherneva, Z. and Guedes Soares, C. (2006), "Distribution of Crest Heights in Sea States with Abnormal Waves", *Applied Ocean Research*, Vol. 28, pp. 235-245.

1.1.60 Sebastião, P. and Guedes Soares, C. (2007), "Uncertainty in Predictions of Oil Spill Trajectories in Open Sea", *Ocean Engineering*, Vol. 34, Issues 3-4, pp. 576-584.

1.1.61 Petrova, P.G., Cherneva, Z. and Guedes Soares, C. (2007), "On the Adequacy of Second-Order Models to Predict Abnormal Waves", *Ocean Engineering*, Vol. 34, pp. 956-961.

1.1.62 Scotto, M. G. and Guedes Soares, C. (2007), "Bayesian Inference for Long-Term Prediction of Significant Wave Height", *Coastal Engineering*, Vol. 54, pp. 393-400.

1.1.63 Pascoal, R., Guedes Soares, C. and Sorensen, A.J. (2007), "Ocean Wave Spectral Estimation Using Vessel Wave Frequency Motions", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 129, Issue 2, pp. 90-96.

1.1.64 Veltcheva, A. and Guedes Soares, C. (2007), "Analysis of Abnormal Wave Records by the Hilbert Huang Transform Method", *Journal of Atmospheric and Oceanic Technology*, Vol.24, pp.1678-1689.

1.1.65 Cherneva, Z. and Guedes Soares, C. (2007), "Estimation of the Bispectra and Phase Distribution of Storm Sea States with Abnormal Waves", *Ocean Engineering*, Vol. 34, pp. 2009-2020.

1.1.66 Boukhanovsky, A.V., Lopatoukhin, L.J. and Guedes Soares, C. (2007), "Spectral Wave Climate of the North Sea" *Applied Ocean Research*, Vol. 29, pp. 146-154.

1.1.67 Antão, E.M. and Guedes Soares, C. (2008), "On the Occurrence of Abnormal Waves in an Offshore Tank", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 130, Issue 2, 021008.

1.1.68 Rusu, E., Pilar, P. and Guedes Soares, C. (2008), "Evaluation of the Wave Conditions in Madeira Archipelago with Spectral Models", *Ocean Engineering*, Vol. 35, pp. 1357-1371.

1.1.69 Pascoal, R. and Guedes Soares, C. (2008), "Non-Parametric Wave Spectral Estimation Using Vessel Motions", *Applied Ocean Research*, Vol. 30, pp. 46-53.

1.1.70 Cherneva, Z., Andreeva, N., Pilar, P., Valchev, N., Petrova, P. and Guedes Soares, C. (2008), "Validation of the WAMC4 Wave Model for the Black Sea", *Coastal Engineering*, Vol. 55, Issue 11, pp. 881-893.

1.1.71 Petrova, P.G. and Guedes Soares, C. (2008), "Maximum Wave Crest and Height Statistics of Irregular and Abnormal Waves in an Offshore Basin", *Applied Ocean Research*, Vol. 30, pp. 144-152.

1.1.72 Pilar, P., Guedes Soares, C. and Carretero, J.C. (2008), "44-Year Wave Hindcast for the North East Atlantic European Coast", *Coastal Engineering*, Vol. 55, pp. 861-871.

1.1.73 Ponce de Leon, S. and Guedes Soares, C. (2008), "Sensitivity of a Wave Model Predictions to Wind Fields in the Western Mediterranean Sea", *Coastal Engineering*, Vol. 55, Issue 11, pp. 920-929.

1.1.74 Rusu, L., Guedes Soares, C. and Pilar, P. (2008), "Hindcast of the Wave Conditions along the West Iberian Coast", *Coastal Engineering*, Vol. 55, Issue 11, pp. 906-919.

1.1.75 Sebastião, P., Guedes Soares, C. and Alvarez, E. (2008), "44 Years Hindcast of Sea Level in the Atlantic Coast of Europe", *Coastal Engineering*, Vol. 55, Issue 11, pp. 843-848.

1.1.76 Cherneva, Z. and Guedes Soares, C. (2008), "Non-Linearity and Non-Stationarity of the New Year Abnormal Wave", *Applied Ocean Research*, Vol. 30, pp. 215-220.

1.1.77 Pascoal, R. and Guedes Soares, C. (2009), "Kalman Filtering of Vessel Motions for Ocean Wave Directional Spectrum Estimation", *Ocean Engineering*, Vol. 36, Issues 6-7, pp. 477-488.

1.1.78 Rusu, E. and Guedes Soares, C. (2009), "Numerical Modelling to Estimate the Spatial Distribution Of The Wave Energy in The Portuguese Nearshore", *Renewable Energy*, Vol. 34, Issue 6, pp. 1501-1516.

1.1.79 Cherneva, Z., Tayfun, M.A. and Guedes Soares, C. (2009), "Statistics of Nonlinear Waves Simulated in an Offshore Wave Basin", *Journal of Geophysical Research*, Vol. 114, C08005, doi:10.1029/2009JC005332.

1.1.80 Arena, F. and Guedes Soares, C. (2009), "Nonlinear High Wave Groups in Bimodal Sea States", *Journal of Waterway, Port, Coastal and Ocean Engineering*, May/July, Vol. 135, pp. 69-79.

1.1.81 Boukhanovskyi, A. and Guedes Soares, C. (2009), "Modelling of Multipeaked Directional Wave Spectra", *Applied Ocean Research*, Vol. 31, pp. 132-141.

1.1.82 Petrova, P. and Guedes Soares, C. (2009), "Probability Distributions of Wave Heights in Bimodal Seas Generated in an Offshore Basin", *Applied Ocean Research*, Vol. 31, pp. 90-100.

1.1.83 Arena, F. and Guedes Soares, C. (2009), "Nonlinear Crest, Trough, and Wave Height Distributions in Sea States with Double-Peaked Spectra", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 131, Issue 4, 041105.

1.1.84 Rusu, L., Bernardino, M. and Guedes Soares, C. (2009), "Influence of wind modelling on the predictions of waves generated in an estuary", *Journal of Coastal Research*, Issue 56, pp. 1419-1423.

1.1.85 Bhattacharjee, J. and Sahoo, T. (2009), "Interaction of flexural gravity waves with shear current in shallow water", *Ocean Engineering*, Vol. 36, pp. 834-841.

1.1.86 Rusu, E. and Guedes Soares, C. (2010), "Validation of two wave and Nearshore current models", *Journal of Waterway, Port, Coastal and Ocean Engineering*, Vol. 136, Issue 1, pp. 27-45.

1.1.87 Ponce de Leon, S. and Guedes Soares, C. (2010), "The sheltering effect of the Balearic Islands in the hindcast wave field", *Ocean Engineering*, Vol. 37, pp. 603-610.

1.1.88 Fedele, F., Cherneva, Z., Tayfun, M.A. and Guedes Soares, C. (2010), "Nonlinear Schrödinger Invariants and Wave Statistics", *Physics of Fluids*, Vol. 22(3), pp. 036601-1/036601-9.

1.1.89 Petrova, P. and Guedes Soares, C. (2010), "Wave Height Distribution of Laboratory Generated Bimodal Seas with Abnormal Waves", *International Journal of Ocean and Climate Systems*, Vol. 1, Issues 3-4, pp. 239-248.

1.1.90 Petrova, P. and Guedes Soares, C. (2010), "Addendum to: ``Probability distributions of wave heights in bimodal seas in an offshore basin" [Appl. Ocean Res. 31 (2009) 90100], *Applied Ocean Research*, Vol. 32, page 135.

1.1.91 Karmakar, D., Bhattacharjee, J. and Sahoo, T (2010), "Oblique flexural gravity-wave scattering due to changes in bottom topography", *Journal of Engineering Mathematics*, Vol. 66, Issue 4, pp. 325-341.

1.1.92 Campos, R., De Camargo, R. e Harari, J. (2010), "Characterization of extreme events of sea level in Santos and its relation to the reanalysis of the NCEP model in the Southeastern part of the South Atlantic" (in Portuguese), *Revista Brasileira de Meteorologia*, Vol. 25, Issue 2, pp. 175-184.

1.1.93 Muraleedharan, G., Kurup, P.G., Sinha, M., Rao, A.D., Latha, G. and Dube, S.K. (2010), "A Theoretical Spectrum for Multi-Peaked Energy Sea States", *International Journal of Oceanography and Marine Science*, Vol. 1 (1), pp. 011-021.

1.1.94 Rusu, L. and Guedes Soares, C. (2011), "Modelling the Wave-Current Interactions in a Offshore Basin using the Swan Model", *Ocean Engineering*, Vol. 38, pp. 63-76.

1.1.96 Cherneva, Z., Guedes Soares, C. and Petrova, P.G. (2011), "Distribution of Wave Height Maxima in Storm Sea States", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 133(4), 041601.

1.1.97 Rusu, L., Bernardino, M. and Guedes Soares, C. (2011), "Modelling the influence of currents on wave propagation at the entrance of the Tagus estuary", *Ocean Engineering*, Vol. 38, pp. 1174-1183.

1.1.98 Lucas, C., Boukhanovsky, A. and Guedes Soares, C. (2011), "Modelling the Climatic Variability of Directional Wave Spectra", *Ocean Engineering*, Vol. 38, Issue 11-12, pp.1283-1290.

1.1.99 Cherneva, Z. and Guedes Soares, C. (2011), "Evolution of wave properties during propagation in a ship towing tank and an offshore basin", *Ocean Engineering*, Vol. 38, pp. 2254-2261.

1.1.100 Rusu, E. and Guedes Soares, C. (2011), "Wave Modelling at the Entrance of the Ports", *Ocean Engineering*, Vol. 38, pp. 2089-2109.

1.1.101 Petrova, P.G., Arena, F. and Guedes Soares, C. (2011), "Space-time evolution of random wave groups with high waves based on the quasi-determinism theory", *Ocean Engineering*, Vol. 38, pp. 1640-1648.

1.1.102 Guedes Soares, C., Rusu, L., Bernardino, M. and Pilar, P. (2011), "An Operational Forecasting System for the Portuguese Continental Coastal Area", *Journal Operational Oceanography*, Vol. 4(2), pp. 17-27.

1.1.103 Petrova, P.G. and Guedes Soares, C. (2011), "Wave Height Distributions in Bimodal Sea States from Offshore Basins", *Ocean Engineering*, Vol. 38 (4), pp. 658-672.

1.1.104 Rusu, E., Gonçalves, M. and Guedes Soares, C. (2011), "Evaluation of the Wave Transformation in an Open Bay with Two Spectral Models", *Ocean Engineering*, Vol. 38(16), pp. 1763-1781.

1.1.105 Veltcheva, A. and Guedes Soares, C. (2012), "Analysis of abnormal wave groups in Hurricane Camille by the Hilbert Huang Transform method", *Ocean Engineering*, Vol. 42, pp. 102-111.

1.1.106 Rusu, L. and Guedes Soares, C. (2012), "Wave Energy Assessments in the Azores Islands", *Renewable Energy*, Vol. 45, pp. 183-196.

1.1.107 Guedes Soares, C. and Carvalho, A.N. (2012), "Probability Distributions of Wave Heights and Periods in Combined Sea-States Measured Off the Spanish Coast", *Ocean Engineering*, Vol. 52, pp. 13-21.

1.1.108 Cherneva, Z. and Guedes Soares, C. (2012), "Non-Gaussian Wave Groups Generated in an Offshore Wave Basin", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 134, 041602.

1.1.109 Ponce de Leon, S. and Guedes Soares, C. (2012), "Distribution of winter wave spectral peaks in the Seas around Norway", *Ocean Engineering*, Vol. 50, pp. 63-71.

1.1.110 Muraleedharan, G., Lucas, C., Guedes Soares, C., Unnikrishnan Nair, N. and Kurup, P.G. (2012), "Modelling significant wave height distributions with quantile functions for estimation of extreme wave heights", *Ocean Engineering*, Vol. 54, pp. 119-131.

1.1.111 Rusu, E. and Guedes Soares, C. (2012), "Wave Energy Pattern around the Madeira Islands", *Energy*, Vol. 45, pp. 771-785.

1.1.112 Rusu, L. and Guedes Soares, C. (2013), "Evaluation of a high-resolution wave forecasting system for the approaches to ports", *Ocean Engineering*, Vol. 58, pp. 224-238.

1.1.113 Cherneva, Z., Tayfun, M.A. and Guedes Soares, C. (2013), "Statistics of Waves with Different Steepness Simulated in a Wave Basin", *Ocean Engineering*, Vol. 60, pp.186-192.

1.1.114 Petrov, V., Guedes Soares, C. and Gotovac, H. (2013), "Prediction of extreme significant wave heights using maximum entropy", *Coastal Engineering*, Vol. 74, pp. 1-10.

1.1.115 Dong, S., Wang, N., Liu, W. and Guedes Soares, C. (2013), "Bivariate Maximum Entropy Distribution of Significant Wave Height and Peak Period, *Ocean Engineering*, Vol. 59, pp. 86-99.

1.1.116 Silva, D., Rusu, E. and Guedes Soares, C. (2013), "Evaluation of Various Technologies for Wave Energy Extraction in the Portuguese Nearshore", *Energies*, Vol. 6, pp. 1344-1364.

1.1.117 Dong, S., Tao, S., Lei, S. and Guedes Soares, C. (2013), "Parameter Estimation of Maximum Entropy Distribution of Significant Wave Height", *Journal of Coastal Research*, Vol. 29(3), pp. 597-604.

1.1.118 Rusu, E. and Guedes Soares, C. (2013), "Coastal Impact Induced by a Pelamis Wave Farm Operating in the Portuguese Nearshore", *Renewable Energy*, Vol. 58, pp. 34-49.

1.1.119 Petrova, P.G., Tayfun, M.A. and Guedes Soares, C. (2013), "The Effect of Third Order Nonlinearities on the Statistics Distributions of Wave Heights, Crests and Troughs in Bimodal Crossing Seas", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 135, 021801.

1.1.120 Dong, S., Liu, W., Zhang, L. and Guedes Soares, C. (2013), "Return Value Estimation of Significant Wave Heights with Maximum Entropy Distribution", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 135, 031103.

1.1.121 Tao, S., Dong, S., Wang, N. and Guedes Soares, C. (2013), "Estimating Storm Surge Intensity with Poisson Bivariate Maximum Entropy Distributions Based on Copulas", *Natural Hazards*, Vol. 68, pp. 791-807.

1.1.122 Zhang, HD., Cherneva, Z. and Guedes Soares, C. (2013), "Joint distributions of wave height and period in laboratory generated nonlinear sea states", *Ocean Engineering*, Vol. 74, pp. 72-80.

1.1.123 Rusu, E. and Guedes Soares, C. (2013), "Modelling Waves in Open Coastal Areas and Harbors with Phase-Resolving and Phase-Averaged Models", *Journal of Coastal Research*, Vol. 29(6), pp. 1309-1325.

1.1.124 Muraleedharan, G. (2013), "Characteristic and Moment Generating Functions of Three Parameter Weibull Distribution-an Independent Approach", *Research Journal of Mathematical and Statistical Sciences*, Vol. 1(8), pp. 25-27.

1.1.125 Ponce de Leon, S. and Orfila, A. (2013), "Numerical study of the marine breeze around Mallorca Island", *Applied Ocean Research*, Vol. 40, pp. 26-34.

1.1.126 Goncalves, M., Martinho, P. and Guedes Soares, C. (2014), "Wave energy conditions in the western French coast", *Renewable Energy*, Vol. 62, pp. 155-163.

1.1.127 Slunyaev, A., Pelinovsky, E. and Guedes Soares, C. (2014) "Reconstruction of extreme events through numerical simulations", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 136, 011302.

1.1.128 Goncalves, M., Martinho, P. and Guedes Soares, C. (2014), "Assessment of wave energy in the Canary Islands", *Renewable Energy*, Vol. 68, pp.774-784.

1.1.129 Rusu, L., Bernardino, M. and Guedes Soares, C. (2014), "Wind and Wave Modelling in the Black Sea", *Journal of Operational Oceanography*, Vol. 7, pp. 5-20.

1.1.130 Zhang, HD., Cherneva, Z., Guedes Soares, C. and Onorato, M. (2014), "Modeling Extreme Wave Heights from Laboratory Experiments with the Nonlinear Schrödinger Equation", *Natural Hazards and Earth System Sciences*, Vol. 14, pp. 959-968.

1.1.131 Antão, E. and Guedes Soares, C. (2014), "Approximation of Bivariate Probability Density of Individual Wave Steepness and Height with Copulas", *Coastal Engineering*, Vol. 89, pp. 45-52.

1.1.132 Petrova, P.G. and Guedes Soares, C. (2014), "Distribution of nonlinear wave amplitude and heights from laboratory generated following and crossing bimodal seas", *Natural Hazards and Earth System Sciences*, Vol. 14, pp. 1207-1222.

1.1.133 Rusu, L. and Guedes Soares, C. (2014), "Forecasting fishing vessel responses in coastal areas", *Journal of Marine Science and Technology*, Vol. 19, pp. 215-227.

1.1.134 Zhang, HD., Guedes Soares, C. and Onorato, M. (2014), "Modelling of the Spatial Evolution of Extreme Laboratory Wave Heights with the Nonlinear Schrödinger and Dysthe Equations", *Ocean Engineering*, Vol. 89, pp. 1-9.

1.1.135 Ponce de Leon, S. and Guedes Soares, C. (2014), "Extreme wave parameters under North Atlantic extratropical hurricanes", *Ocean Modelling*, Vol. 81, pp. 78-88.

1.1.136 Salvacao, N., Bernardino, M. and Guedes Soares, C. (2014), "Assessing mesoscale wind simulations in different environments", *Computers & Geosciences*, Vol. 71, pp. 28-36.

1.1.137 Guedes Soares, C., Bento, A.R., Goncalves, M., Silva, D. and Martinho, P. (2014), "Numerical evaluation of the wave energy resource along the Atlantic European coast", *Computers & Geosciences*, Vol. 71, pp. 37-49.

1.1.138 Bento, A.R., Rusu, E., Martinho, P. and Guedes Soares, C. (2014), "Assessment of the changes induced by a wave farm in the nearshore wave conditions", *Computers & Geosciences*, Vol. 71, 50-61.

1.1.139 Cherneva, Z. and Guedes Soares, C. (2014), "Time-frequency analysis of the sea state with the "Andrea" freak wave", *Natural Hazards and Earth System Sciences*, Vol. 14, pp. 3143-3150.

1.1.140 Dong, S., Tao, S., Chen, C. and Guedes Soares, C. (2014), "Interval Estimations of Return Wave Height Based on Maximum Entropy Distribution", *Journal of Coastal Research*, Vol. 30(5), pp. 967-974.

1.1.141 Santoro, A., Arena, F. and Guedes Soares, C. (2014), "Space-time evolution of wave groups in crossing seas with the Quasi-determinism theory", *Ocean Engineering*, Vol. 91, pp. 350-362.

1.1.142 Muraleedharan, G. and Guedes Soares, C. (2014), "Characteristic and Moment Generating Functions of Generalised Pareto (GP3) and Weibull Distributions", *Journal of Scientific Research and Reports*, Vol. 3(14), pp. 1861-1874.

1.1.143 Rusu, L. and Guedes Soares, C. (2014), "Local data assimilation scheme for wave predictions close to the Portuguese ports", *Journal of Operational Oceanography*, Vol. 7(2), pp. 45-57.

1.1.144 Semedo, A., Vettor, R., Breivik, O., Sterl, A., Reistad, M., Guedes Soares, C. and Lima, D. (2015), "The wind sea and swell waves climate in the Nordic Seas", *Ocean Dynamics*, Vol. 65, pp. 223-240.

1.1.145 Ponce de Leon, S. and Guedes Soares, C. (2015), "Hindcast of Extreme Sea States in North Atlantic Extratropical Storms", *Ocean Dynamics*, Vol. 65, pp. 241-254.

1.1.146 Bento, A.R., Martinho, P. and Guedes Soares, C. (2015), "Numerical modelling of the wave energy in Galway Bay", *Renewable Energy*, Vol. 78, pp. 457-466.

1.1.147 Dong, S., Tao, S., Li, X. and Guedes Soares, C. (2015), "Trivariate Maximum Entropy Distribution of Significant Wave Height, Wind Speed and Relative Direction", *Renewable Energy*, Vol. 78, pp. 538-549.

1.1.148 Goncalves, M., Rusu, E. and Guedes Soares, C. (2015), "Evaluation of two spectral wave models in coastal areas", *Journal of Coastal Research*, Vol. 31(2), pp. 326-339.

1.1.149 Vettor, R. and Guedes Soares, C. (2015), "Detection and analysis of the main routes of voluntary observing ships in the North Atlantic", *Journal of Navigation*, Vol. 68, pp. 397-410.

1.1.150 Antão, E. and Guedes Soares, C. (2015), "Joint Distributions of Wave Steepness in Narrow Band Sea States", *Ocean Engineering*, Vol. 101, pp. 201-210.

1.1.151 Veltcheva, A. and Guedes Soares, C. (2015), "Wavelet analysis of non-stationary sea waves during Hurricane Camille", *Ocean Engineering*, Vol. 95, pp. 166-174.

1.1.152 Wang, Z., Dong, S., Chen, C. and Guedes Soares, C. (2015), "Long-term Characteristics and Extreme Parameters of Currents and Sea Levels in the Bohai Sea Based on 20-year Numerical Hindcast Data", *Natural Hazards*, Vol. 76, pp. 1603-1624.

1.1.153 Zhang, HD., Guedes Soares, C. and Onorato, M. (2015), "Modelling of the Spatial Evolution of Extreme Laboratory Wave Crest and Trough Heights with the NLS-Type Equations", *Applied Ocean Research*, Vol. 52, pp. 140-150.

1.1.154 Ponce de Leon, S. and Guedes Soares, C. (2015), "Hindcast of the Hércules winter storm in the North Atlantic", *Natural Hazards*, Vol. 78, pp. 1883-1897.

1.1.155 Muraleedharan, G., Lucas, C., Martins, D., Guedes Soares, C. and Kurup, P.G. (2015), "On the distribution of significant wave height and associated peak periods", *Coastal Engineering*, Vol. 103,

pp. 42-51.

1.1.156 Laface, V., Arena, F. and Guedes Soares, C. (2015), "Directional analysis of sea storms", *Ocean Engineering*, Vol. 107, pp. 45-53.

1.1.157 Zhang, HD., Cherneva, Z., Guedes Soares, C. and Onorato, M. (2015), "Comparison of Distributions of Wave Heights from Nonlinear Schroedinger Equation Simulations and Laboratory Experiments", *Journal Offshore Mechanics and Arctic Engineering*, Vol. 137, 051102.

1.1.158 Lucas, C. and Guedes Soares, C. (2015), "On the modelling of swell spectra", *Ocean Engineering*, Vol. 108, pp. 749-759.

1.1.159 Silva, D., Bento, A.R., Martinho, P. and Guedes Soares, C. (2015), "High resolution local wave energy modelling for the Iberian Peninsula", *Energy*, Vol. 91, pp. 1099-1112.

1.1.160 Petrova, P.G. and Guedes Soares, C. (2015), "Validation of the Boccotti's generalized model for large nonlinear wave heights from laboratory mixed sea states", *Applied Ocean Research*, Vol. 5, pp. 297-308.

1.1.161 Rusu, L. and Guedes Soares, C. (2015), "Impact of assimilating altimeter data on wave predictions in the western Iberian coast", *Ocean Modelling*, Vol. 96, pp. 126-135.

1.1.162 Lucas, C. and Guedes Soares, C. (2015), "Bivariate distributions of significant wave height and mean wave period of combined sea states", *Ocean Engineering*, Vol. 106, pp. 341-353.

1.1.163 Campos, R. and Guedes Soares C. (2016), "Comparison of HIPOCAS and ERA wind and wave reanalysis in the North Atlantic Ocean", *Ocean Engineering*, Vol. 112, pp. 320-334.

1.1.164 Zhang, HD., Guedes Soares, C., Onorato, M. and Toffoli, A. (2016), "Modelling of the temporal and spatial evolutions of weakly nonlinear random directional waves with the modified nonlinear Schrödinger equations", *Applied Ocean Research*, Vol. 55, pp. 130-140.

1.1.165 Akpinar, A. and Ponce de Leon, S. (2016), "An assessment of the wind re-analyses in the modelling of an extreme sea state in the Black Sea", *Dynamics of Atmospheres and Oceans*, Vol. 73, pp. 61-75.

1.1.166 Semedo, A., Soares, P.M.M., Lima, D.C.A., Cardoso, R.M., Bernardino, M. and Miranda, P.M.A., (2016), "The impact of climate change on the global coastal low-level wind jets: EC-EARTH simulations", *Global and Planetary Change*, Vol. 137, pp. 88-106.

1.1.167 Wang, Z., Dong, S., Li, X. and Guedes Soares, C. (2016), "Assessments of Wave Energy in the Bohai Sea, China", *Renewable Energy*, Vol. 90, pp. 145-156.

1.1.168 Vettor, R. and Guedes Soares, C. (2016), "Assessment of the storm avoidance effect on the wave climate along the main North Atlantic routes", *Journal of Navigation*, Vol. 69, pp. 127-144.

1.1.169 Veltcheva, A. and Guedes Soares, C. (2016), "Nonlinearity of abnormal waves by the Hilbert-Huang Transform method", *Ocean Engineering*, Vol. 115, pp. 30-38.

1.1.170 Muraleedharan, G., Lucas, C. and Guedes Soares, C. (2016), "Regression Quantile Models for Estimating Trends in Extreme Significant Wave Heights", *Ocean Engineering*, Vol. 118, pp. 204-215.

1.1.171 Bitner-Gregersen, E., Guedes Soares, C., and Vantorre, M. (2016), "Adverse weather conditions for ship manoeuvrability", *Transportation Research Procedia*, Vol. 14, pp.1631-1640.

1.1.172 Zhang, HD. and Guedes Soares, C. (2016), "Modified joint distribution of wave heights and periods", *China Ocean Engineering*, Vol. 30(3), pp. 359-374.

1.1.173 Zhang, HD., Guedes Soares, C., Chalikov, D. and Toffoli, A. (2016), "Modelling the Spatial Evolutions of Nonlinear Unidirectional Surface Gravity Waves with Fully Nonlinear Numerical Method", *Ocean Engineering*, Vol. 125, pp. 60-69.

1.1.174 Campos, R. and Guedes Soares C. (2016), "Comparison and Assessment of Three Wave Hindcasts in the North Atlantic Ocean", *Journal of Operational Oceanography*, Vol. 9(1), pp. 26-44.

1.1.175 Antão, E. and Guedes Soares, C. (2016), "Approximation of the Joint Probability Density of Steepness and Height of individual waves with a Bivariate Gamma Distribution", *Ocean Engineering*, Vol. 126, pp. 402-410.

1.1.176 Veltcheva, A. and Guedes Soares, C. (2016), "Analysis of Wave groups by the Hilbert Huang Transform method", *Applied Ocean Research*, Vol. 60, pp. 176-184.

1.1.177 Almeida, S., Rusu, L. and Guedes Soares, C. (2016), "Data assimilation with the ensemble Kalman filter in a high-resolution wave forecasting model for coastal areas", *Journal of Operational Oceanography*, Vol. 9(2), pp. 103-114.

1.1.178 Silva, D., Rusu, E. and Guedes Soares, C. (2016), "High-resolution wave energy assessment in shallow water accounting for tides", *Energies*, Vol. 9, pp. 761-779.

1.1.179 Bernardino, M., Rusu, L. and Guedes Soares, C. (2017), "Evaluation of the wave energy resources in the Cape Verde Islands", *Renewable Energy*, Vol. 101, pp. 316-326.

1.1.180 Perera, L.P. and Guedes Soares, C. (2017), "Weather Routing and Safe Ship Handling in the Future of Shipping", *Ocean Engineering*, Vol. 130, pp. 684-695.

1.1.181 Zhang, HD., Ducrozet, G. and Klein, M. (2017), "Guedes Soares C. "An experimental and numerical study on breather solutions for surface waves in the intermediate water depth", *Ocean Engineering*, Vol. 133, pp. 262-270.

1.1.182 Zhang, HD., Sanina, E., Babanin, A. and Guedes Soares, C. (2017), "On the analysis of 2D nonlinear gravity waves with a fully nonlinear numerical model", *Wave Motion*, Vol. 70, pp. 152-165.

1.1.183 Marta-Almeida, M., Cirano, M., Guedes Soares, C. and Lessa, G.C. (2017), "A numerical tidal stream energy assessment study for Baia de Todos os Santos, Brazil", *Renewable Energy*, Vol. 107, pp. 271-287.

1.1.184 Ji, QL., Dong, S., Luo, X. and Guedes Soares, C. (2017), "Wave Transformation over Submerged Breakwaters by the Constrained Interpolation Profile Method", *Ocean Engineering*, Vol. 136, pp. 294-303.

1.1.185 Fonseca, R.B., Goncalves, M. and Guedes Soares, C. (2017), "Comparing the performance of spectra wave model for coastal areas", *Journal of Coastal Research*, Vol. 33(2), pp. 331-346.

1.1.186 Campos, R. and Guedes Soares C. (2017), "Assessment of Three Wind Reanalysis in the North Atlantic Ocean", *Journal of Operational Oceanography*, Vol. 10(1), pp. 30-44.

1.1.187 Lucas, C., Muraleedharan, G. and Guedes Soares, C. (2017), "Regional Frequency Analysis of Extreme Waves in a Coastal Area", *Coastal Engineering*, Vol. 126, pp. 81-95.

1.1.188 Vettor, R. and Guedes Soares, C. (2017), "Characterisation of the expected wave conditions in the main European coastal traffic routes", *Ocean Engineering*, Vol. 140, pp. 244-257.

1.1.189 Salvação, N. and Guedes Soares, C. (2018), "Wind resource assessment offshore the Atlantic Iberian coast with the WRF model", *Energy*, Vol. 145, pp. 276-287.

1.1.190 Campos, R., Alves, J.H.G.M., Guedes Soares, C., Guimaraes, L.G. and Parente, C.E. (2018), "Extreme wind-wave modeling and analysis in the south Atlantic Ocean", *Ocean Modelling*, Vol. 124, pp. 75-93.

1.1.191 Varela, J.M., Rodriguez, G.R. and Guedes Soares, C. (2018), "Comparison study between the Fourier and the Hartley transforms for the real-time simulation of the sea surface elevation", *Applied Ocean Research*, Vol. 74, pp. 227-236.

1.1.192 Campos, R. and Guedes Soares, C. (2018), "Spatial distribution of offshore wind statistics on the coast of Portugal using Regional Frequency Analysis", *Renewable Energy*, Vol. 123, pp. 806-816.

1.1.193 Tao, S., Dong, S., Wang, Z. and Guedes Soares, C. (2018), "Intensity division of the sea ice zones in China", *Cold Regions Science and Technology*, Vol. 151, pp. 179-187.

1.1.194 Bento, A.R., Martinho, P. and Guedes Soares, C. (2018), "Wave energy assessement for Northern Spain from a 33-year hindcast", *Renewable Energy*, Vol. 127, pp. 322-333.

1.1.195 Silva, D., Martinho, P. and Guedes Soares, C. (2018), "Wave energy distribution along the Portuguese continental coast based on a thirty-three years hindcast", *Renewable Energy*, Vol. 127, pp. 1064-1075.

1.1.196 Zhang, Y., Kim, C-W., Beer, M., Dai, H.L. and Guedes Soares, C. (2018), "Modeling multivariate ocean data using asymmetric copulas", *Coastal Engineering*, Vol. 135, pp. 91-111.

1.1.197 Mohapatra, S.C., Fonseca, R.B. and Guedes Soares, C. (2018), "Comparison of analytical and numerical simulations of long nonlinear internal solitary waves in shallow water", *Journal of Coastal Research*, Vol. 34(4), pp. 928-938.

1.1.198 Silva, D., Rusu, E. and Guedes Soares, C. (2018) "The effect of a wave energy farm protecting an aquaculture installation", *Energies*, Vol. 11(8), 2109.

1.1.199 Bento, A.R. Salvacao, N. e Guedes Soares, C. (2018), "Validation of an operational wave forecast system for Galway Bay", *Journal of Operational Oceanography*, Vol. 11(2), pp. 112–124.

1.1.200 Goncalves, M., Martinho, P. and Guedes Soares, C. (2018), "A 33-year hindcast on wave energy assessment in the western French coast", *Energy*, Vol. 165, pp. 790-801.

1.1.201 Lin, YF. Dong, S., Wang, Z.F. and Guedes Soares, C. (2019), "Wave energy assessment in the China adjacent seas on the basis of a 20-year SWAN simulation with unstructured grids", *Renewable Energy*, Vol. 136, pp. 275-295.

1.1.202 Campos, R., Guedes Soares, C., Alves, J.H.G.M., Parente, L.G. and Guimarães, L.G. (2019), "Regional Long-Term Extreme Wave Analysis using Hindcast Data from the South Atlantic Ocean", *Ocean Engineering*, Vol. 179, pp. 202-212.

1.1.203 Zhang, HD., Shi, H.D. and Guedes Soares, C. (2019), "Evolutionary properties of mechanically generated deepwater extreme waves induced by nonlinear wave focusing", *Ocean Engineering*, Vol. 186, 106077.

1.1.204 Petrov, V., Lucas, C. and Guedes Soares, C. (2019), "Maximum entropy estimates of extreme significant wave heights from satellite altimeter data", *Ocean Engineering*, Vol. 187, 106205.

1.1.205 Lucas, C., Muraleedharan, G. and Guedes Soares, C. (2019), "Assessment of the uncertainty of estimated extreme quantiles by regional frequency analysis", *Ocean Engineering*, Vol. 190, 106347.

1.1.206 Osborne, A.R., Resio, D.T., Costa, A., Ponce de Leon, S. and Chirivi, E. (2019), "Highly Nonlinear Wind Waves in Currituck Sound: Dense Breather Turbulence in Random Ocean Waves", *Ocean Dynamics*, Vol. 69(2), pp. 187-219.

1.1.207 Gonçalves, M., Martinho, P. and Guedes Soares, C. (2020), "Wave energy assessment based on a 33-year hindcast for the Canary Islands", *Renewable Energy*, Vol. 152, pp. 259-269.

1.1.208 Ponce de Leon, S. and Osborne, A.R. (2020), "Role of Nonlinear Four-Wave Interactions Source Term on the Spectral Shape", *Journal of Marine Science and Engineering*, Vol. 8, 251.

1.1.209 Campos, R.M., Alves, J.H.G.M., Penny, S.G. and Krasnopolsky, V. (2020), "Global assessments of the NCEP Ensemble Forecast System using altimeter data", *Ocean Dynamics*, Vol. 70, pp. 405-419.

1.1.210 Campos, R.M., Krasnopolsky, V., Alves, J.H.G.M. and Penny, S.G. (2020), "Improving NCEP's global-scale wave ensemble averages using neural networks", *Ocean Modelling*, Vol. 149, 101617.

1.1.211 Lucas, C., Muraleedharan, G. and Guedes Soares, C. (2020), "Assessment of extreme waves in the North Atlantic Ocean by regional frequency analysis", *Applied Ocean Research*, Vol. 100, 102165.

1.1.212 Costa, T.C., Pereira, L.T., Marta-Almeida, M. and Guedes Soares, C. (2020), "Mapping of currents off the northwestern Iberian coast with the Regional Ocean Modelling System", *Journal of Operational Oceanography*, Vol. 13(2), pp. 71-83.

1.1.213 Vettor, R. and Guedes Soares, C. (2020), "A Global View on Bimodal Wave Spectra and Crossing Seas from ERA-interim", *Ocean Engineering*, Vol. 210, 107439.

1.1.214 Ribeiro, A.S., deCastro, M., Rusu, L., Bernardino, M., Dias, J.M. and Gomez-Gesteira, M. (2020), "Evaluating the Future Eciency of Wave Energy Converters along the NW Coast of the Iberian Peninsula", *Energies*, Vol. 13, 3563.

1.1.215 Gramcianinov, C.B., Campos, R.M., Guedes Soares, C. and Camargo, R. (2020), "Extreme waves generated by cyclonic winds in the western portion of the South Atlantic Ocean", *Ocean Engineering*, Vol. 213, 107745.

1.1.216 Gramcianinov, C.B., Campos, R.M., Camargo, R., Hodges, K.I., Guedes Soares, C. and Silva Dias, P.L., (2020), "Analysis of Atlantic extratropical storm tracks characteristics in 41 years of ERA5 and CFSR/CFSv2 Databases", *Ocean Engineering*, Vol. 216, 108111.

1.1.217 Vieira, Mh., Guimaraes, P.V., Violante-Carvalho, N., Benetazzo, A., Bergamasco, F. and Pereira, H. (2020), "A Low-Cost Stereo Video System for Measuring DirectionalWind Waves", *Journal of Marine Science and Engineering*, Vol. 8, 831.

1.1.218 Campos, R.M., D'Agostini, A., Leite Franca, B.R., Machado Cruz, L. and Guedes Soares, C. (2021), "Extreme wind and wave predictability from operational forecasts at the Drake Passage", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 143, 021703.

1.1.219 Ponce de Leon, S. and Guedes Soares, C. (2021), "Numerical modelling of the effects of the Gulf Stream on the wave characteristics", *Journal of Marine Science and Engineering*, Vol. 9, 42.

1.1.220 Zhang, HD., Wang, X.J., Shi, H.D. and Guedes Soares, C. (2021), "Investigation on abnormal wave dynamics in regular and irregular sea states", *Ocean Engineering*, Vol. 222, 108602.

1.1.221 Campos, R.M., Islam, H., Ferreira, T.R.S. and Guedes Soares, C. (2021), "Impact of heavy biofouling on a nearshore heave-pitch-roll wave buoy performance", *Applied Ocean Research*, Vol. 107, 102500.

1.1.222 Ponce de Leon, S. and Guedes Soares, C. (2021), "Extreme waves in the Agulhas current region inferred from SAR wave spectra and the SWAN model", *Journal of Marine Science and Engineering*, Vol. 9, 153.

1.1.223 Lucas, C., Bernardino, M. and Guedes Soares, C. (2021), "Relation between atmospheric circulation patterns in the North Atlantic and the sea states in the Iberian Peninsula", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 143, 031201.

1.1.224 Campos, R.M., Costa, M.O., Almeida, F. and Guedes Soares, C. (2021), "Operational wave forecast selection in the Atlantic Ocean using Random Forests", *Journal of Marine Science and Engineering*, Vol. 9(3), 298.

1.1.225 Rosa, T.L., Piecho-Santos, A.M.P., Vettor, R. and Guedes Soares, C. (2021), "Review and Prospects for Autonomous Observing Systems in Vessels of Opportunity", *Journal of Marine Science and Engineering*, Vol. 9, 366.

1.1.226 Clarindo, G., Teixeira, A.P. and Guedes Soares, C. (2021), "Environmental wave contours by Inverse FORM and Monte Carlo Simulation with variance reduction techniques", *Ocean Engineering*, Vol. 228, 108916.

1.1.227 Bernardino, M., Goncalves, M. and Guedes Soares, C. (2021), "Marine climate projections towards the end of the Twenty First century in the North Atlantic", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 143, 061201.

1.1.228 Vettor, R. and Guedes Soares, C. (2021), "On the accuracy of voluntary observing ship's records", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 143(5), 054501.

1.1.229 Gramcianinov, C.B., Campos, R.M., Camargo, R. de and Guedes Soares, C. (2021), "Relation between cyclone evolution and fetch associated with extreme wave events in the South Atlantic Ocean", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 143, 061202.

1.1.230 Ponce de Leon, S. and Bettencourt, J.H. (2021), "Composite analysis of North Atlantic extra-tropical cyclone waves from satellite altimetry observations", *Advances in Space Research*, Vol. 68(7), pp. 62–772.

1.1.231 Abdalla, S., Bettencourt, J.H., Ponce de Leon, S. and "358 more authors" (2021), "Altimetry for the future: Building on 25 years of progress", *Advances in Space Research*, Vol. 68, pp. 319-363.

1.1.232 Bernardino, M., Rusu, L. and Guedes Soares, C. (2021), "Evaluation of extreme storm waves in the Black Sea", *Journal of Operational Oceanography*, Vol. 14(2), pp. 114-128.

1.1.233 Haselsteiner, A.F., Coeb, R.G., Manuel, L., Chaid, W., Leira, B.J., Clarindo, G., Guedes Soares, C., Hannesdóttir, I., Dimitrov, N., Sander, A., Ohlendorf, J-H., Thoben, K.D., Hauteclocque, G. de, Mackay, E., Jonathan, P., Qiao, C., Myers, A., Rode, A., Hildebrandt, A., Schmidt, B., Vanem, E. and Huseby, A.B. (2021), "A benchmarking exercise for environmental contours", *Ocean Engineering*, Vol. 236, 109504.

1.1.234 Campos, R.M., Bernardino, M., Gonçalves, M. and Guedes Soares, C. (2022), "Assessment of metocean forecasts for Hurricane Lorenzo in the Azores Archipelago", *Ocean Engineering*, Vol. 243, 110292.

1.1.235 Petrova, P.G., Guedes Soares, C., Aguiar, T.C.G.R. and Esperança, P.T.T. (2022), "Statistical distributions of nonlinear waves from random laboratory wave fields", *Ocean Engineering*, Vol. 243, 110170.

1.1.236 Zhang, HD., Liao, XM., Shi, HD., Babanin, A. and Guedes Soares, C. (2022), "Effect of initial condition uncertainty on the profile of maximum wave", *Marine Structures*, Vol. 82, 103127.

1.1.237 Campos, R.M., D'Agostini, A., Franca, B.R.L., Damiao, A.L.A. and Guedes Soares, C. (2022), "Implementation of a multi-grid operational wave forecast in the South Atlantic Ocean", *Ocean Engineering*, Vol. 243, 110173.

1.1.238 Freitas, A.L., Bernardino, M. and Guedes Soares, C. (2022), "The influence of the arctic oscillation on the North Atlantic wind and wave climate by the end of the 21st century", *Ocean Engineering*, Vol. 246, 110634.

1.1.239 Legaz, M.J. and Guedes Soares, C. (20229, "Evaluation of various wave energy converters in the Bay of Cadiz", *Brodogradnja*, Vol. 73(1), pp. 57-88.

1.1.240 Bitner-Gregersen, E., Waseda, T., Parunov, J., Yim, S., Hirdaris, S., Ma, N. and Guedes Soares, C. (2022), "Uncertainties in long-term wave modelling", *Marine Structures*, Vol. 84, 103217.

1.1.241 Ponce de Leon, S. and Guedes Soares, C. (2022), "Distribution of average extreme wave parameters in the North Atlantic from numerical simulations", *Ocean Engineering*, Vol. 253, 110901.

1.1.242 Salvação, N., Bentamy, A. and Guedes Soares, C. (2022), "Developing a new wind dataset by blending satellite data and WRF model wind predictions", *Renewable Energy*, Vol. 198, pp. 283-295.

1.1.243 Zhang, HD., Cui, J., Liao, XM., Shi, HD. and Guedes Soares, C. (2022), "Numerical study on the vertical response of LNG carrier in abnormal waves generated with different mechanisms", *Ocean Engineering*, Vol. 262, 112090.

1.1.244 Monteiro, M.J., Couto, F.T., Bernardino, M., Cardoso, R.M., Carvalho, D., Martins, J.P.A., Santos, J.A., Argain, J.L. and Salgado, R. (2022), "A review on the current status of numerical weather prediction in Portugal 2021: Surface-atmosphere interactions", *Journal of Marine Science and Engineering*, Vol. 13, 1356.

1.1.245 Ponce de Leon, S. and Guedes Soares, C. (2022), "Numerical study of the effect of current on waves in the Agulhas Current Retroflection", *Ocean Engineering*, Vol. 264, 112333.

1.1.246 Silva, D., Gonçalves, M., Bentamy, A. and Guedes Soares, C. (2022), "Assessment of the use of scatterometer wind data to force wave models in the North Atlantic Ocean", *Ocean Engineering*, Vol. 266, 112803.

1.1.247 D'Agostini, A., Bernardino, M. and Guedes Soares, C. (2022), "Projected wave storm conditions under the RCP8.5 climate change scenario in the North Atlantic Ocean", *Ocean Engineering*, Vol. 266, 112874.

1.1.248 Zhang, HD., Cui, J., Shi, HD. and Guedes Soares, C. (2022), "Analysis of the peaks of ship motions in linear and nonlinear focused waves", *Ocean Engineering*, Vol. 266, 113028.

1.1.249 Gonçalves, M. and Guedes Soares, C. (2022), "Local assimilation of wave model predictions for weather routing systems", *Ocean Engineering*, Vol. 266, 113126.

1.2 Papers in Books

1.2.1 Guedes Soares, C., Lopes, L.C. and Costa, M.D.S. (1988), "Wave Climate Modelling for Engineering Purposes", *Computer Modelling in Ocean Engineering*, Schrefler, B.A. and Zienkiewicz, O.C. (Eds), A.A. Balkema Pub., Rotterdam, pp. 169-175.

1.2.2 Guedes Soares, C. (1989), "Bayesian Prediction of Design Wave Heights", *Reliability and Optimization of Structural Systems '88*, Thoft-Christensen, P. (Ed.), Springer-Verlag, Vol. 48, pp. 311-323.

1.2.3 Guedes Soares, C., Nolasco, M.C. and Mendes, P. (1992), "Probability of Occurrence of Combined Sea States in the Portuguese Coast", *Exploring the Portuguese Exclusive Economic Zone, Naval Architecture and Marine Engineering in Portugal* (in Portuguese), Vol. IX, Guedes Soares, C. (Ed.), Lisboa, pp. 13.1-13.32.

1.2.4 Guedes Soares, C., Ferreira, A.M. and Cunha, C. (1994), "Auto-Regressive Model for the Long Term Series of Significant Wave Height in the Portuguese Coast", *Modelling of Coastal and Estuarine Processes*, Seabra, F.J. e Temperville, A. (Eds.), Coimbra, Portugal pp. 59-70.

1.2.5 Guedes Soares, C. (1995), "Probabilistic Wave Modelling in Coastal Waters", *Marine Sciences and Technologies*, Weydert, M., Lipiatou, E., Goñi, R., Fragakis, C., Bohle-Carbonell, M. and Barthel, K.-G. (Eds.) Commission of European Communities, Brussels, November, Vol. 1, pp. 615-628.

1.2.6 Guedes Soares, C. and Ferreira, A.M. (1995), "Analysis of the Seasonality in Non-Stationary Time Series of Significant Wave Height", *Computational Stochastic Mechanics*, Spanos, P.D. (Ed.), A.A. Balkema, Rotterdam, pp. 559-578.

1.2.7 Ferreira, J.A. and Guedes Soares, C. (1995), "Estimation of the Probability of Occurrence of Sea States", *Good Sense and Sensability - Main Principals of Statistics* (in Portuguese), Branco, J., Gomes, P. and Prata, J. (Eds.), Sociedade Portuguesa de Estatística, Lisbon, Vol. 5, pp. 493-516.

1.2.8 Cunha, C. and Guedes Soares, C. (1995), "Study of the Transformation and Filling of Missing Values in Time Series of Significant Wave Height", *Good Sense and Sensability - Main Principals of Statistics* (in Portuguese), Branco, J., Gomes, P. and Prata, J. (Eds.), Sociedade Portuguesa de Estatística, Lisbon, Vol. 5, pp. 449-466.

1.2.9 Gomes, D. and Guedes Soares, C. (1995), "Estimation of the Directional Spectrum of Sea States by the Maximum Entropy Method", *Good Sense and Sensability - Main Principals of Statistics* (in

Portuguese), Branco, J., Gomes, P. and Prata, J. (Eds.), Sociedade Portuguesa de Estatística, Lisbon, Vol. 5, pp. 479-491.

1.2.10 Bitner-Gregersen, E. and Guedes Soares, C. (1997), "Overview of Probabilistic Models of the Wave Environment for Reliability Assessment of Offshore Structures", *Advances in Safety and Reliability*, Guedes Soares, C. (Ed.), Pergamon, Vol. 2, pp. 1445-1456.

1.2.11 Silva, F., Sebastião, P. and Guedes Soares, C. (1997), "System for Prediction and Visualization of the Evolution of Crude Oil Spills at Sea", *Safety, Quality and Environment in the Marine Industries* (in Portuguese), Guedes Soares, C. and Monerris, A.M. (Eds.), Lisbon, pp. 34.1-34.14.

1.2.12 Guedes Soares, C. (1998), "Stochastic Modelling of Waves and Wave Induced Loads", *Risk and Reliability in Marine Technology*, Guedes Soares, C. (Ed.), A.A. Balkema, pp. 197-212.

1.2.13 Sebastião, P. and Guedes Soares, C. (1998), "Weathering of Oil Spills Accounting for Oil Components", *Oil and Hydrocarbon Spills, Modelling, Analysis and Control*, Garcia-Martinez, R. and Brebbia, C.A. (Eds.), Computational Mechanics Publications, pp. 63-72.

1.2.14 Guedes Soares, C., Sebastião, P., Pilar, P. and Elavai, V. (2000), "Hindcast of the Wave Conditions on the Portuguese EEZ", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. and Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 37-58.

1.2.15 Henriques, A.C. and Guedes Soares, C. (2000), "Study of the Directionality Associated with Two Peaked Spectra in the Portuguese Coast", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. and Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 13-25.

1.2.16 Silva, F.M., Sebastião, P., Carneiro, C. and Guedes Soares, C. (2000), "System to Predict the Fate and Trajectory of Oil Spills in the Portuguese EEZ", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. and Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 371-386.

1.2.17 Guedes Soares, C., Sebastião, P. and Silva, F. (2000), "System for Oil Spill Prediction", *Hydraulic Engineering Software VIII (Hydrosoft 2000)*, Blain, W.R. and Brebbia, C.A. (Eds.), WIT *Press*, Southampton, pp. 217-226.

1.2.18 Guedes Soares, C. and Sebastião, P. (2002), "Risk of Oil Spill Pollution off the Portuguese Coast", *Risk Analysis III*, Brebbia, C.A. (Ed.), WIT Press, pp. 337-345.

1.2.19 Izquierdo, P., Guedes Soares, C. and Fontes, J.B. (2002), "Radar Monitoring of Wave Conditions", *The Sea, Source of Sustainable Development* (in Portuguese), Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M.B. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 17-32.

1.2.20 Guedes Soares, C. and Pilar, P. (2002), "Reconstitution of 15 Years of Maritime Agitation in the Portuguese EEZ", *The Sea, Source of Sustainable Development* (in Portuguese), Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M.B. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 43-66.

1.2.21 Guedes Soares, C. (2003), "Probabilistic Models of Waves in the Coastal Zone", *Advances in Coastal Modelling*, Lakan, V.C. (Ed.), Elsevier, pp. 159-187.

1.2.22 Olagnon, M., Appolonov, E.M., Bryndum, M., Clauss, G., Guedes Soares, C., Hutchison, B.L., Kawabe, H., Kleiven, G., Rebaudengo, L.L., Swail, V., Tuhkuri, J. and Wolfram, J. (2003), "Environment", *Ship and Offshore Structures Congress (ISSC 2003)*, Mansour, A.E and Ertekin, R. (Eds.), 11-15 August, San Diego, USA, Vol. 1, Committee I.1, pp. 1-58.

1.2.23 Guedes Soares, C., Izquierdo, P. and Fontes, J.B. (2003), "Monitoring of Waves with X- Band Radar in the Port of Sines", *Building the European Capacity in Operational Oceanography*, Dahlin, H., Flemming, N.C., Nittis, K. and Petersson, S.E. (Eds.), Elsevier Oceanography Series, pp. 154-160.

1.2.24 Guedes Soares, C., Hajji, H. and Sebastião, P. (2003), "Sea Level Prediction in The Portuguese Coast Based on Model and Remote Sensed Data", *Building the European Capacity in Operational Oceanography*, Dahlin, H., Flemming, N.C., Nittis, K. and Petersson, S.E. (Eds.), Elsevier Oceanography Series, pp. 190-194.

1.2.25 Sebastião, P.A. and Guedes Soares, C. (2003), "Pre-Operational System for Oil Spill Simulation", *Building the European Capacity in Operational Oceanography*, Dahlin, H., Flemming, N.C., Nittis, K. and Petersson, S.E. (Eds.), Elsevier Oceanography Series, pp. 523-526.

1.2.26 Guedes Soares, C., Rusu, L. and Pilar, P. (2004), "Wave Hindcast along the Portuguese Continental Coast", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 73-82.

1.2.27 Pulquério, D., Sá, R., Sebastião, P. and Guedes Soares, C. (2004), "A GIS application to support

decision-making in the prevention and control of pollution at sea", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 431-442.

1.2.28 Sebastião, P. and Guedes Soares, C. (2004), "Modelling 44 years of tides on the Portuguese Coast", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda, Lisbon, pp. 43-53.

1.2.29 Cherneva, Z. and Guedes Soares, C. (2005), "Bispectra and Time-Frequency Spectra of Wind Waves in the Coastal Zone", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis Group, London, UK, Vol. 2, pp. 1005-1014.

1.2.30 Guedes Soares, C. and Pacheco, M.B. (2005), "GIS Based System to Assess Sea Conditions along Specified Ship Routes", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis Group, London, UK, Vol. 2, pp. 1037-1044.

1.2.31 Guedes Soares, C., Sebastião, P., Antão, P., Gouveia, J.V., Pacheco, M.V., Pulquério, D. and Sá, R. (2005), "Planning Operations to Combat Marine Pollution with the Support of a Geographic Information System", *Analysis and Management of Risk, Safety and Reliability* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. 1, pp. 395-416.

1.2.32 Lopatoukhin, L., Boukhanovsky, A.V. and Guedes Soares, C. (2005), "Hindcasting and forecasting the probability of freak waves occurrence", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Francis & Taylor Group, Lisbon, Vol. 2, pp. 1075-1080.

1.2.33 Pascoal, R., Veltcheva, A. and Guedes Soares, C. (2005), "On the Stopping Criterion to Apply the Hilbert Huang Transform Method to Sea Wave Records", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Francis & Taylor Group, Lisbon, Vol. 2, pp. 1113-1122.

1.2.34 Rusu, E., Ventura Soares, C. and Rusu, L. (2005), "Computational Strategies and Visualization Techniques for the Waves Modelling in the Portuguese Nearshore", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Francis & Taylor Group, Lisbon, Vol. 2, pp. 1129-1136.

1.2.35 Rusu, L., Pilar, P. and Guedes Soares, C. (2005), "Reanalysis of the Wave Conditions in the Approaches to the Portuguese Port of Sines", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Francis & Taylor Group, Lisbon, Vol. 2, pp. 1137-1142.

1.2.36 Guedes Soares, C. and Antão, E. (2005), "Comparison of the Characteristics of Abnormal Waves on the North Sea and Gulf of Mexico", *Rogue Waves 2004*, Olagnon, M. and Prevosto, M. (Eds.), IFREMER, Brest-France.

1.2.37 Boukhanovsky, A.V., Lopatoukhin, L. and Guedes Soares, C. (2005), "Climatic Wave Spectra and Freak Waves Probability", *Rogue Waves 2004*, Olagnon, M. and Prevosto, M. (Eds.), IFREMER, Brest-France.

1.2.38 Pulquério, D., Sá, R., Marcão, S., Brude, O.W., Endresen, Ø. and Guedes Soares, C. (2006), "Application of a model to define the areas vulnerable to oil spills on the Portuguese Coast", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 401-416.

1.2.39 Pilar, P., Lucas, C. and Guedes Soares, C. (2006), "Validation of a 44 years North Atlantic hindcast model on the Portuguese Coast", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. XIV, pp. 443-455.

1.2.40 Silva, A.L., Ponce de Leon, S. and Guedes Soares, C. (2006), "Wave Modelling on Cabo Verde Archipelago", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 521-532.

1.2.41 Soares, C.S. and Guedes Soares, C. (2006), "Fitting of bivariate distributions of significant wave height and peak period of in the North Sea", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 457-478.

1.2.42 Rusu, E., Guedes Soares, C. and Pilar, P. (2006), "Assessment of the SWAN model deepwater in the coast of Continental Portugal", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 479-490.

1.2.43 Rusu, L. and Guedes Soares, C. (2006), "High-resolution simulations with the SWAN model at the entrance of the Tagus Estuary", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 503-519.

1.2.44 Hutchison, B., Appolonov, E.M., Guedes Soares, C., Kleiven, G., Prevosto, M., Rahman, T., Rebaudengo Landó, L., Shaw, C., Smith, D. and Tomita, H. (2006), "Environment", *Ship and Offshore Structures Congress (ISSC 2006)*, Frieze, P.A. and Shenoi, R.A. (Eds.), 20-25 August, Southampton, UK, Vol. 1, Committee I.1, pp. 1-84.

1.2.45 Bitner-Gregersen, E.M. and Guedes Soares, C. (2007), "Uncertainty of Average Wave Steepness Prediction from Global Wave Databases", *Advancements in Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 3-10.

1.2.46 Rusu, L. and Guedes Soares, C. (2008), "Modelling of the Wave-Current Interactions in Tagus Estuary", *Maritime Industry, Ocean Engineering and Coastal Resources*, Guedes Soares, C. and Kolev, P. (Eds.), Taylor & Francis Group, London, UK, Vol. II, pp. 801-810.

1.2.47 Rusu, E., Guedes Soares, C. and Pilar, P. (2008), "Development of a Wave Prediction System for the Madeira Archipelago", *Maritime Industry, Ocean Engineering and Coastal Resources*, Guedes Soares, C. and Kolev, P. (Eds.), Taylor & Francis Group, London, UK, Vol. II, pp. 787-800.

1.2.48 Petrova, P.G., Cherneva, Z. and Guedes Soares, C. (2008), "Statistical Properties of Steepness and Symmetry of Shallow Water Waves", *Maritime Industry, Ocean Engineering and Coastal Resources*, Guedes Soares, C. and Kolev, P. (Eds.), Taylor & Francis Group, London, UK, Vol. II, pp. 777-786.

1.2.49 Sá, R., Pulquério, D. and Guedes Soares, C. (2008), "Decision support system for the combat of oil pollution at sea in continental Portuguese Economic Exclusive Zone", *Maritime Industry, Ocean Engineering and Coastal Resources*, Guedes Soares, C. and Kolev, P. (Eds.), Taylor & Francis Group, London, UK, Vol. II, pp. 1171-1176.

1.2.50 Pereira, A.I., Rusu, L., Pilar, P. and Guedes Soares, C. (2008), "Spatial Distribution of Wave Energy in the Peniche Region", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda. Lisbon.

1.2.51 Guedes Soares, C., Bernardino, M., Rusu, L. and Pilar, P. (2008), "Implementation of a wave forecast system in the ports of Sines and Leixões", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda., Lisbon.

1.2.52 Canas, C. and Guedes Soares, C. (2008), "An ecological approach to prioritise coastal resources of the Portuguese coast prone to oil spills", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda., Lisbon.

1.2.53 Gonçalves, M., Pilar, P., Rusu, E. and Guedes Soares, C. (2008), "STWAVE model simulations along the Portuguese coast", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda. Lisbon.

1.2.54 Muraleedharan, G., Guedes Soares, C. and Lucas, C. (2011), "Characteristic and Moment Generating Functions of Generalised Extreme Value Distribution (GEV)", *Sea Level Rise, Coastal Engineering, Shorelines and Tides*, Oceanography and Ocean Engineering Series, pp. 269-276.

1.2.55 Muraleedharan, G., Guedes Soares, C., Murty, T.S., Jain, I., Rao, A.D. and Dube, S.K., (2011), "Application of the Work-Energy Theorem for Computing Inundation from Long Gravity Waves", *Sea Level Rise, Coastal Engineering, Shorelines and Tides*, Oceanography and Ocean Engineering Series, pp. 171-190.

1.2.56 Cherneva, Z. and Guedes Soares, C. (2011), "Non-linear and Non-Stationary Sea Waves", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 45-67.

1.2.57 Guedes Soares, C., Cherneva, Z., Petrova, P.G. and Antão, E. (2011), "Large Waves in Sea States", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 79-95.

1.2.58 Guedes Soares, C. and Scotto, M.G. (2011), "Long Term and Extreme Value Models of Wave Data", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira

(Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 97-108.

1.2.59 Nieto Borge, J.C. and Guedes Soares, C. (2011), "Application of Navigation Radar for Estimating Wave Spectra", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 125-134.

1.2.60 Rodriguez, G.R., Petrova, P.G. and Guedes Soares, C. (2011), "Short term wave statistics in sea states with two peaked spectrum", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 147-163.

1.2.61 Rusu, E., Goncalves, M. and Guedes Soares, C. (2011), "High resolution wave model simulations in the Portuguese nearshore", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 165-179.

1.2.62 Rusu, L., Bernardino, M., Pilar, P. and Guedes Soares, C. (2011), "Hindcast Studies of the Wave Conditions on the Portuguese Coast", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 181-198.

1.2.63 Veltcheva, A.D. and Guedes Soares, C. (2011), "Application of the Hilbert Huang Transform analysis to sea waves", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 269-278.

1.2.64 Lucas, C., Muraleedharan, G. and Guedes Soares, C. (2012), "Regional extreme frequency analysis in the North Altantic ocean during the summer season", *Sustainable Maritime Transportation and Exploitation of Sea Resources*, E. Rizzuto, C. Guedes Soares, (Eds.), Taylor and Francis Group, pp. 891-901.

1.2.65 Bento, A.R., Martinho, P. and Guedes Soares, C. (2012), "Modelling Wave Energy for the North Coast of Spain", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 563-570.

1.2.66 Bernardino, M., Salvação, N. and Rusu, L. (2012), "Assessment of wind and wave simulations for an enclosed sea using satellite data", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 467-471.

1.2.67 Campos, R. and Guedes Soares, C. (2012), "Comparisons of two wind and wave data sets from the North Atlantic", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 473-479.

1.2.68 Gonçalves, M., Rusu, E. and Guedes Soares, C. (2012), "Evaluation of the wave models SWAN and STWAVE in shallow water using nested schemes", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 481-485.

1.2.69 Silva, D., Martinho, P. and Guedes Soares, C. (2012), "Modelling wave energy for the portuguese nearshore", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 647-653.

1.2.70 Lucas, C., Muraleedharan, G. and Guedes Soares, C. (2012), "Assessment of wave height extreme quantiles in North Atlantic using Regional Frequency Analysis", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 487-495.

1.2.71 Petrov, V., Guedes Soares, C. and Gotovac, H. (2012), "Maximum entropy modelling of extreme significant wave heights on Portuguese coast", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 497-504.

1.2.72 Queirós, J., Guedes Soares, C. and Bernardino, M. (2012), "Influence of wave data bases on the long term prediction of wave induced loads in ships", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 513-523.

1.2.73 Rusu, E., Goncalves, M. and Guedes Soares, C. (2012), "Study of the Wave Transformation in the Central Part of the Portuguese Nearshore with High Resolution Models", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 525-531.

1.2.74 Rusu, E. and Guedes Soares, C. (2012), "Assessment of the Wave Energy in Two Enclosed Seas", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 613-621.

1.2.75 Rusu, L., Pilar, P. and Guedes Soares, C. (2012), "Modelling the Wave Conditions in the Archipelago

of Azores", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 533-538.

1.2.76 Semedo A., Rutgersson, A., Sterl, A. and Suseli, K. (2012), "The Global Wave Age Climate *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 539-543.

1.2.77 Guedes Soares, C., Bento, A.R., Gonçalves, M., Silva, D. and Martinho, P. (2014), "Assessment of Mean Wave Energy Potential for the Atlantic European Coast Using Numerical Modelling", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña, F. (Eds.), Francis & Taylor Group, London, UK, pp. 1003-1012.

1.2.78 Humeniuk, J.F., Ponce de Leon, S., Violante-Carvalho, N. and Guedes Soares, C. (2014), "Sheltering effect of islands on the Pacific swell", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 973-978.

1.2.79 Rusu, E. and Guedes Soares, C. (2014), "Modelling the effect of wave current interaction at the mouth of the Danube River", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 979-986.

1.2.80 Rusu, E., Silva, D. and Guedes Soares, C. (2014), "Efficiency assessments for different WEC types operating in the Portuguese coastal environment", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 961-972.

1.2.81 Rusu, L. and Guedes Soares, C. (2014), "Forecasting containership responses in the Azores Archipelago", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 987-994.

1.2.82 Salvação, N., Bernardino, M. and Guedes Soares, C. (2014), "Assessing the offshore wind energy potential along coasts of Portugal and Galicia", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 995-1002.

1.2.83 Vettor, R., Semedo, A., Guedes Soares, C., Breivik, O., Sterl, A. and Reistad, M. (2014), "Wind sea and Swell Waves in the Northeast Atlantic Ocean", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 1029-1036.

1.2.84 Zhang, HD. and Guedes Soares, C. (2015), "Responses of an LNG carrier in the presence of abnormal waves", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1081-1094.

1.2.85 Cherneva, Z., Guedes Soares, C. and Andreeva, N. (2015), "Wind and wave climate over the Black Sea", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1309-1316.

1.2.86 Lucas, C., Muraleedharan, G. and Guedes Soares, C. (2015), "Outliers identification in a wave hindcast dataset used for Regional Frequency Analysis", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1317-1328.

1.2.87 Martins, D., Muraleedharan, G. and Guedes Soares, C. (2015), "Weather window analysis of a site off Portugal", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1329-1338.

1.2.88 Veltcheva, A. and Guedes Soares, C. (2015), "Extreme wave statistics of linear and nonlinear waves in Hurricane Camille", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1339-1348.

1.2.89 Almeida, S., Rusu, L. and Guedes Soares, C. (2015), "Application of the Ensemble Kalman Filter to a high-resolution wave forecasting model for wave height forecast in coastal areas", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1349-1354.

1.2.90 Rusu, E. and Guedes Soares, C. (2015), "Influence of a new quay on the wave propagation inside the Sines harbour", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1355-1364.

1.2.91 Rusu, L., Ponce de Leon, S. and Guedes Soares, C. (2015), "Numerical modelling of the North Atlantic storms affecting the West Iberian coast", *Maritime Technology and Engineering*, Guedes

Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1365-1370.

1.2.92 Bernardino, M. and Guedes Soares, C. (2015), "A Lagrangian perspective of the 2013/2014 winter wave storms in the North Atlantic", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1381-1388.

1.2.93 Santoro, A., Arena, F. and Guedes Soares, C. (2015), "The performance of the Quasi-Determinism theory in crossing seas conditions", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1395-1402.

1.2.94 Sohrabi, M., Rusu, L. and Guedes Soares, C. (2015), "Comparison of altimeter derived wave periods and significant wave heights with buoy data in the Portuguese coastal environment", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1403-1410.

1.2.95 Almeida, M.M. and Guedes Soares, C. (2015), "Numerical investigation of the tidal energy potential in the Portuguese continental shelf", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 177-182.

1.2.96 Bento, A.R., Martinho, P. and Guedes Soares, C. (2015), "Wave energy resource assessment for Northern Spain from a 13-year hindcast", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 63-69.

1.2.97 Bento, A.R., Martinho, P., Salvação, N. and Guedes Soares, C. (2015), "An operational wave forecast system for the Galway Bay", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 57-62.

1.2.98 Gonçalves, M., Martinho, P. and Guedes Soares, C. (2015), "A 10-year hindcast study on wave energy potential in France", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 77-83.

1.2.99 Gonçalves, M., Martinho, P. and Guedes Soares, C. (2015), "Wave Energy Assessment in the Canary Islands from a 10-year Hindcast", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 85-90.

1.2.100 Martins, D., Gangadharan, M. and Guedes Soares, C. (2015), "Analysis on weather windows conditioned by significant wave height and wind speed", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 91-98.

1.2.101 Salvação, N. and Guedes Soares, C. (2015), "Offshore wind energy assessment for the Iberian coast with a regional atmospheric model", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 219-228.

1.2.102 Salvação, N. and Guedes Soares, C. (2015), "An operational forecast system for wind conditions in the Portuguese pilot area of Aguçadoura", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 229-236.

1.2.103 Salvação, N., Guedes Soares, C. and Bentamy, A. (2015), "Offshore Wind energy assessment for the Iberian coasts using remotely sensed data", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 237-244.

1.2.104 Silva, D., Martinho, P. and Guedes Soares, C. (2015), "Wave power resources at Portuguese test sites from 11-year hindcast data", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 113-121.

1.2.105 Rusu, L. and Guedes Soares, C. (2015), "Application of data assimilation for improving the predictions of storm conditions close to the West Iberian coast", Guedes Soares, C. Dejhalla R. and Pavletiæ D., (Eds.), *Towards Green Marine Technology and Transport*, Taylor & Francis Group, London, UK, pp. 795-800.

1.2.106 Bitner-Gregersen, E., Bhattacharya, S.K., Cherneva, Z., Dong, S., Fu, T., Kapsenberg, G., Ma, N., Maisondieu, C., Miyake, R., John Murphy, A. and Rychlik, I. (2015), "Committee I.1 – Environment", *19th International Ship and Offshore Structures Congress (ISSC 2015)*, C. Guedes Soares & Y. Garbatov Y., (Eds.), Elsevier, pp. 1-72.

1.2.107 Bernardino, M. and Guedes Soares, C. (2016), "A climatological analysis of storms in the North Atlantic", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1021-1026.

1.2.108 Campos, R. and Guedes Soares, C. (2016), "An hybrid model to forecast significant wave heights", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis

Group, London, UK, pp. 1027-1035.

1.2.109 Guedes Soares, C., Goncalves, M., Salvação, N. and Rusu, L. (2016), "Validation of an operational wave forecasting system for the North Atlantic area", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1037-1043.

1.2.110 Lucas, C. and Guedes Soares, C. (2016), "Bivariate distributions of significant wave height and peak period of sea states in deep and shallow waters offshore Portugal", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1045-1054.

1.2.111 Lucas, C., Silva, D. and Guedes Soares, C. (2016), "Influence of water depth on the characteristics of spectra at the entrance of major Portuguese ports", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1055-1064.

1.2.112 Muraleedharan, G., Lucas, C., Martins, D. and Guedes Soares, C. (2016), "Modelling average conditional exceedances of significant wave heights and associated peak periods", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1065-1072.

1.2.113 Pereira, L.T., Costa, T.C., Marta-Almeida, M. and Guedes Soares, C. (2016), "Modeling of the western Iberian oceanic currents with ROMS", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1073-1078.

1.2.114 Rusu, E., Silva, D. and Guedes Soares, C. (2016), "Evaluation of the shoreline dynamics in a coastal sector of the Portuguese nearshore", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1079-1086.

1.2.115 Rusu, L. and Guedes Soares, C. (2016), "Comparison of various data assimilation methods to improve the wave predictions in the Portuguese coastal environment", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1087-1093.

1.2.116 Silva, D., Rusu, E. and Guedes Soares, C. (2016), "Evaluation of the expected power output of wave energy converters in the north of the Portuguese nearshore", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 875-882.

1.2.117 Goncalves, M., Martinho, P. and Guedes Soares, C. (2016), "A hindcast study on wave energy variability and trends in Le Croisic, France", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 3-9.

1.2.118 Muraleedharan, G., Lucas, C., Martins, D. and Guedes Soares, C. (2016), "On the peak period distributions conditioned on significant wave heights in Agucadoura, Portugal", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 11-19.

1.2.119 Rodrigues, G.R., Clarindo, G. and Guedes Soares, C. (2016), "Wave energy potential assessment along the west coast of Fuerteventura", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 37-44.

1.2.120 Bento, A.R., Martinho, P. and Guedes Soares, C. (2016), "Wave energy resource assessment from a 12-year hindcast, for Pembrokshire, Wales", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 45-51.

1.2.121 Silva, D., Martinho, P. and Guedes Soares, C. (2016), "Trends in the available wave power at the Portuguese pilot zone", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 53-59.

1.2.122 Costa, T.C., Pereira, L.T., Marta-Almeida, M. and Guedes Soares, C. (2016), "Assessment of ocean current data modeled with ROMS for de Aguçadoura pilot area", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 71-78.

1.2.123 Bernardino, M. and Guedes Soares, C. (2016), "Assessing climate change effect in offshore wind power in the North of Portugal", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 111-118.

1.2.124 Campos, R. and Guedes Soares, C. (2016), "Regional frequency analysis of wind speed on the coast of Portugal", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 119-127.

1.2.125 Bernardino, M. and Guedes Soares, C. (2018), "Evaluating marine climate change in the Portuguese coast during the 20th century", *Maritime Transportation and Harvesting of Sea Resources*, Guedes

Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1089-1095.

1.2.126 Rusu, L., Goncalves, M. and Guedes Soares, C. (2018), "Prediction of storm conditions using wind data from the ECMWF and NCEP reanalysis", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1111-1117.

1.2.127 Muraleedharan, G., Lucas, C. and Guedes Soares, C. (2018), "Peak period statistics associated with significant wave heights by conditional mean functions of the distributions", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 693-698.

1.2.128 Rusu, L., Bernardino, M. and Guedes Soares, C. (2018), "Analysis of extreme storms in the Black Sea", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 699-704.

1.2.129 Rodriguez, G., Clarindo, G. and Guedes Soares, C. (2018), "Robust estimation and representation of climatic wave spectrum", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 705-714.

1.2.129a Fu, T., Babanin, A., Bentamy, A., Campos, R.M., Dong, S., Gramstad, O., Kapsenberg, G., Mao, WG., Miyake, R., Murphy, A.J., Prasetyo, F., Qiu, W. and Sagrillo, L. (2018), "Committee I.1 – Environment", *20th International Ship and Offshore Structures Congress (ISSC 2018)*, Kaminski, M. & Rigo P. (Eds.), IOS Press Ebooks. pp. Vol 1 - 1-99 and Vol 3 - 1-12.

1.2.130 Fonseca, R.B., Goncalves, M. and Guedes Soares, C. (2019), "Wave height error estimation with the triple collocation method for the Canary Islands", *Advances in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 105-109.

1.2.131 Lucas, C., Silva, D. and Guedes Soares, C. (2019), "Assessment of the wave spectral characteristics in the Portuguese test zone", *Advances in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 59-66.

1.2.132 Salvação, N., Guedes Soares, C. and Bentamy, A. (2019), "Estimating the offshore wind energy along the Portuguese coast using WRF and satellite data", *Advances in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 703-710.

1.2.133 Goncalves, M. and Guedes Soares, C. (2021), "Assessment of the wave energy resource in the Azores coastal area", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 26-33.

1.2.134 Goncalves, M., Bernardino, M. and Guedes Soares, C. (2021), "Assessing climate change effects on the wave energy in the Canary Islands", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 19-25.

1.2.135 Silva, D. and Guedes Soares, C. (2021), "Assessment of the wave power resource at Madeira archipelago with SWAN model", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 45-54.

1.2.136 Clarindo, G. and Guedes Soares, C. (2021), "Environmental wave contours for the West Coast of Fuerteventura", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 3-10.

1.2.137 Legaz, M.J., Ponce de Leon, S. and Guedes Soares, C. (2021), "Validation of a spectral wave model for wave energy assessments in the Bay of Cadiz", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 38-44.

1.2.138 Bernardino, M., Silva, D. and Guedes Soares, C. (2021), "Evaluating trends and variability in the Portuguese coastal wave energy potential using a 22-years high resolution hindcast", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 529-538.

1.2.139 Clarindo, G. and Guedes Soares, C. (2021), "Derivation of environmental contour by direct Monte Carlo techniques", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 549-558.

1.2.140 Gonçalves, M. and Guedes Soares, C. (2021), "Assessment of the wave resource in the Azores coastal area", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 569-576.

1.2.141 Silva, D. and Guedes Soares, C. (2021), "Validation with satellite data of SWAN model for wave

conditions at the Madeira archipelago", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 665-672.

1.2.142 Bettencourt, J.H. and Guedes Soares, C. (2021), "Surface circulation in the Eastern Central North Atlantic", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 785-790.

1.2.143 Campos, R.M., Gonçalves, M. and Guedes Soares, C. (2021), "Assessment of Hurricane Lorenzo metocean forecast", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 791-796.

1.2.144 Gramcianinov, C.B., Campos, R.M., Guedes Soares, C. and de Camargo, R. (2021), "Distribution and characteristics of extreme waves generated by extratropical cyclones in the North Atlantic Ocean", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 797-804.

1.2.145 Ponce de Leon, S., Guedes Soares, C. and Johannessen, J. A. (2021), "Modelling of the Surface Stokes drift in the Agulhas current system", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 809-814.

1.2.146 Babanin, A., Bernardino, M., von Bock und Polach, F., Campos, R.M., Ding, J., van Essen, S., Gaggero, T., Haroutunian, M., Katsardi, V., Nilva, A., Polojarvi, A., Vanem, E., Wang, J.-Y., Zhang, HD. and Zhu, TY. (2022), "Committee I.1: Environment", Wang, X. & Pegg N. (Eds.), *21st International Ship and Offshore Structures Congress (ISSC 2022)*, IOS Press Ebooks, pp. 1-123.

1.2.147 Clarindo, G. and Guedes Soares, C. (2022), "Long-term probabilistic identification of extreme sea-states as causes of coastal risk due to wave severity", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 299-306.

1.2.148 Clarindo, G., Guedes Soares, C. and Rodriguez, G.R. (2022), "Representing spectral changes in seasonal ocean wave patterns using interquartile ranges", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 307-314.

1.3 Conference Proceedings

1.3.1 Guedes Soares, C. and Nolasco, M.C. (1991), "Spectral Modelling of Sea States with Multiple Wave Systems", *Proceedings of the 10th Offshore Mechanics and Arctic Engineering Conference (OMAE'91)*, Guedes Soares, C. et al. (Eds.), ASME, New York, USA, Vol. II, pp. 13-21.

1.3.2 Teixeira, J.C., Abreu, M.P. and Guedes Soares, C. (1993), "Variability of Ocean Wave Hindcasts due to Wind Models", *Proceedings of the 12th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'93),* Guedes Soares, C. et al. (Eds.), ASME, New York, USA, Vol. II, pp.125-133.

1.3.3 Guedes Soares, C. and Henriques, A.C. (1994), "On the Statistical Uncertainty in Long Term Predictions of Significant Wave Height", *Proceedings of the 12th Offshore Mechanics and Arctic Engineering Conference (OMAE'94),* ASME, New York, USA, Vol. II, pp. 65-75.

1.3.4 Guedes Soares, C., Caires, S. and Calado, T. (1994), "Hindcast of a Storm in the Portuguese Coast", *Proceedings of the LITTORAL´94*, Carvalho, S. and Gomes, V. (Eds.), EUROCOAST Association, Portugal, Vol. I, pp. 311-325.

1.3.5 Guedes Soares, C. and Henriques, A.C. (1994), "Long Term Predictions of Significant Wave Heights at Sines and Faro", *Proceedings of the LITTORAL 94*, Carvalho, S. and Gomes, V. (Eds.), EUROCOAST Association, Portugal, Vol. I, pp. 343-356.

1.3.6 Ferreira, A.M., Guedes Soares, C. and Amaral, J. (1994), "Application of an Auto-Regressive Moving Average Model to Time Series of Significant Wave Heights", *Proceedings of the II Annual Congress of the Portuguese Statistical Association,* (in Portuguese), Luso, pp.116-132.

1.3.7 Guedes Soares, C., Krogstad, H.E. and Prevosto, M. (1994), "Probabilistic Models for Coastal Site Investigations", *Proceedings of the OCEANS 94*, IEEE, Vol. I, pp. 493-497.

1.3.8 Barstow, S.F., Paillard, M. and Guedes Soares, C. (1994), "Field Measurements of Coastal Waves and Currents in Portugal and Greece in the WAVEMOD Project", *Proceedings of the OCEANS 94*, IEEE, Vol. I, pp. 487-492.

1.3.9 Caires, S., Machado, U. and Guedes Soares, C. (1995), "Analysis of the Transformation of the Wave Spectrum in Waters of Variable Depth", *Proceedings IV National Meeting on Computational Mechanics*, Lisbon, 10-12 April, Vol. II, pp. 617-630.

1.3.10 Guedes Soares, C. and Ferreira, J.A. (1995), "Modelling Long-term Distributions of Significant Wave Height", *Proceedings of the 14th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'95)*, Guedes Soares, C. (Ed.), ASME, New York, USA, pp. 51-61.

1.3.11 Hidalgo, O.S., Nieto Borge, J.C., Cunha, C. and Guedes Soares, C. (1995), "Filling Missing Observations in Time Series of Significant Wave Height", *Proceedings of the 14th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'95)*, Guedes Soares, C. (Ed.), ASME, New York, USA, Vol. II, pp. 9-17.

1.3.12 Prevosto, M., Krogstad, H.E., Barstow, S. and Guedes Soares, C. (1995), "Observations of the High Frequency Range of the Wave Spectrum", *Proceedings of the 14th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'95)*, Guedes Soares, C. (Ed.), ASME, New York, USA, Vol. II, pp. 19-24.

1.3.13 Guedes Soares, C. and Caires, S. (1995), "Changes in Spectral Shape Due to the Effect of Finite Water Depth", *Proceedings of the 14th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'95),* Guedes Soares, C. (Ed.), ASME, New York, USA, Vol. II, pp. 547-556.

1.3.14 Holthuijsen, L.H., Booij, N., van Endt, M., Caires, S. and Guedes Soares, C. (1996), "Integral Control Data Assimilation in Wave Predictions", *Proceedings of the 25th International Conference on Coastal Engineering*, Edge, B.L. (Ed.), ASCE, New York, USA, Vol. 1, pp. 743-753.

1.3.15 Gomes, D. and Guedes Soares, C. (1997), "Directionality Function Estimated with Maximum Entropy Methods", *Proceedings of the 16th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'97),* Guedes Soares, C. et al (Eds.), ASME, New York, USA, Vol. II, pp. 9-17.

1.3.16 Rodriguez, G.R. and Guedes Soares, C. (1997), "The Bivariate Distribution of Wave Heights and Periods in Mixed Sea States", *Proceedings of the 16th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'97),* Guedes Soares, C. et al (Eds.), ASME, New York, USA, Vol. II, pp. 105-111.

1.3.17 Ferreira, J.A. and Guedes Soares, C. (1997), "An Application of the Peaks over Threshold Method to Significant Wave Height Data", *Proceedings of the 16th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'97),* Guedes Soares, C. et al. (Eds.), ASME, New York, USA, Vol. II, pp. 121-131.

1.3.18 Guedes Soares, C. and Cavaco, P. (1997), "Analysis of Directional Spectra from the Portuguese Coast", *Proceedings of the 27th IAHR Seminar on Multidirectional Waves and their Interaction with Structures*, Mansard, E. (Ed.), San Francisco, pp. 309-322.

1.3.19 Bitner-Gregersen, E.M., Guedes Soares, C. and Silvestre, A. (1998), "On the Average Wave Steepness", *Proceedings of the Ocean Wave Kinematics, Dynamics and Loads on Ship Structures (Wave´98)*, Jun Zhang (Ed.), ASCE, New York, USA, pp. 513-520.

1.3.20 Rodriguez, G., Guedes Soares, C., Pérez Martell, E. and Nieto, J.C. (1998), "Non-Uniformity in the Wind Generated Gravity Waves Phase Distribution", *Proceedings of the 26th International Conference on Coastal Engineering (ICCE'98),* Copenhagen, June, pp. 3668-3679.

1.3.21 Festy, D., Le Bras, S., Clegg, M., Lacotte, N., Lehaitre, M., Menlove, R. and Sebastião, P. (1998), "Biofilm Prevention on Optics by Chlorine Compound Generation on Tin Oxide Coating", *Proceedings of the OCEANS'98*, IEEE, USA.

1.3.22 Rodriguez, G., Guedes Soares, C. and Ferrer, L. (1998), "Wave Group Statistics of Numerically Simulated Mixed Sea States", *Proceedings of the 17th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'98)*, Guedes Soares, C. (Eds.), ASME, New York, USA, Vol. II, Paper OMAE98-1492.

1.3.23 Bitner-Gregersen, E., Guedes Soares, C., Machado U. and Cavaco, P. (1998), "Comparison of Different Approaches to Joint Environmental Modelling", *Proceedings of the 17th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'98)*, Guedes Soares, C. (Eds.), ASME, New York, Vol. II, Paper OMAE98-1495.

1.3.24 Guedes Soares, C., Scotto, M. and Cavaco, P. (1998), "Linear and Non-Linear Models of Long-Term Time Series of Wave Data", *Proceedings of the 17th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'98)*, Guedes Soares, C. (Eds.), ASME, New York, USA, Vol. II, Paper OMAE98-1493.

1.3.25 Henriques, A.C. and Guedes Soares, C. (1998), "Fitting a Double-Peak Spectral Model to Measured Wave Spectra", *Proceedings of the 17th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'98)*, Guedes Soares, C. (Eds.), ASME, New York, USA, Vol. II, Paper OMAE 98-1491.

1.3.26 Rodriguez, G., Guedes Soares, C., Pacheco, M. and Pérez-Martell, E. (1999), "Wave Height Distribution in Mixed Sea States", *Proceedings of the 18th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'99)*, ASME, New York, USA, Paper OMAE 99-6035.

1.3.27 Clauss, G.F., Crossland, P., Guedes Soares, C., Hong, S.-W., Kishev, R., Kyozuka, Y. and Stansberg, C.T. (1999), "The Specialist Committee on Environmental Modelling", Final Report and Recommendations to the 22nd ITTC, P*roceedings of the 22nd ITTC Conference*, Vol. 2, Korea, Japan.

1.3.28 Guedes Soares, C., Rodriguez, G., Cavaco, P. and Ferrer, L. (2000), "Experimental Study on the Interaction of Wave Spectra and Currents", *Proceedings of the 19th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´00)*, Guedes Soares, C. (Eds.), 14-17 February, New Orleans, Louisiana, USA, ASME, New York, USA, Paper OMAE2000/S&R-6133.

1.3.29 Nieto Borge, J.C., Sanz González, R., Hessner, K., Reichert, K. and Guedes Soares, C. (2000), "Estimation of Sea State Directional Spectra by Using Marine Radar Imaging of Sea Surface", *Proceedings of the 19th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´00)*, Guedes Soares, C. (Eds.), 14-17 February, New Orleans, Louisiana, USA, ASME, New York, Paper OMAE2000-S&R-6120.

1.3.30 Rodriguez, G. and Guedes Soares, C. (2000), "Wave Period Distribution in Mixed Sea States", *Proceedings of the 19th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´00)*, Guedes Soares, C. (Eds.), 14-17 February, New Orleans, Louisiana, USA, ASME, New York, Paper OMAE2000/S&R-6132.

1.3.31 Carvalho, A.N. and Guedes Soares, C. (2001), "Probability Distributions of Wave Heights and Periods in Measured Combined Sea-States from the Portuguese Coast", *Proceedings of the 20th International Conference on Offshore Mechanics and ArcticEngineering (OMAE'01),* Guedes Soares, C. (Eds.), 3-8 June, Rio de Janeiro, Brasil, ASME, New York, Paper OMAE2001-S&R-2178.

1.3.32 Cherneva, Z. and Guedes Soares, C. (2001), "Local Non-Stationary Properties of the Wind Wave Groups", *Proceedings of the RINA Conference on Design and Operation for Abnormal Conditions II*, 6-7 November, London, UK, pp. 137-145.

1.3.33 Guedes Soares, C. and Sebastião, P. (2001), "Uncertainty in Predictions of Oil Spill Trajectories", *Proceedings of the Engineering for Ocean & Offshore Structures and Coastal Engineering Development*, 18-21 December, Singapore, pp. 20-27.

1.3.34 Guedes Soares, C., Weisse, R., Carretero, J.C. and Alvarez, E. (2002), "A 40 Years Hindcast of Wind, Sea Level and Waves in European Waters", *Proceedings of the 21st International Conference on Offshore Mechanics and Arctic Engineering (OMAE'02),* 23-28 June, Oslo, Norway, ASME, New York, USA, Paper OMAE2002-SR28604.

1.3.35 Bentamy, A., Hajji, H. and Guedes Soares, C. (2002), "Remotely Sensed Wind, Wave and Sea Level for European Sea Climatology", *Proceedings of the 21st International Conference on Offshore Mechanics and Arctic Engineering (OMAE'02)*, 23-28 June, Oslo, Norway, ASME, New York, USA, Paper OMAE2002-SR28625.

1.3.36 Guedes Soares, C. and Pascoal, R. (2003), "On the Profile of Large Ocean Waves", *Proceedings of the 22nd International Conference on Offshore Mechanics and Arctic Engineering (OMAE'03),* 8-13 June, 2003, Cancun, México, ASME, New York, USA, Paper OMAE2003-37454.

1.3.37 Guedes Soares, C., Ferreira, R.G. and Scotto, M.G. (2003), "On the Prediction of Extreme Values of Significant Wave Heights", *Proceedings of the 22nd International Conference on Offshore Mechanics and Arctic Engineering (OMAE'03),* 8-13 June, Cancun, México, ASME, New York, Paper OMAE2003-37478.

1.3.38 Rodriguez, G.R., Pacheco, M. and Guedes Soares, C. (2004), "Maximum Wave Height Distribution in a Sea State: Effects of Record Length and Spectral Peakedness, *Proceedings of the 23rd International Conference on Offshore Mechanics and Arctic Engineering (OMAE´04)*, 20-25 June, Vancouver, Canada, ASME, New York, Paper OMAE2004-51642.

1.3.39 Léon, S.A., Pilar, P. and Guedes Soares, C. (2004), "Wave hindcast at the entrance of the Port of Lisbon" (in Portuguese), *Proceedings of the Conference on Engineering Computational Methods (CMCE´04)*, 31 May-2 June, Lisbon, Portugal.

1.3.40 Izquierdo, P. and Guedes Soares, C. (2004), "Comparison of methods to estimate sea surface current by X band radar" (in Portuguese), *Proceedings of the Conference on Engineering Computational Methods (CMCE´04)*, 31 May-2 June, Lisbon, Portugal.

1.3.41 Elavai, V., Sebastião, P. and Guedes Soares, C. (2004), "Modelling sea surface elevation on the Portuguese coast due to meteorological and tidal effects" (in Portuguese), *Proceedings of the Conference on Engineering Computational Methods (CMCE´04)*, 31 May-2 June, Lisbon, Portugal.

1.3.42 Neves, S. and Guedes Soares, C. (2004), "Modelling Tidal Current Profiles by Means of Empirical Orthogonal Functions", *Proceedings of the OMAE Specialty Conference on Integrity of Floating Production, Storage & Offloading (FPSO) Systems*, ASME, New York, Paper OMAE-FPSO'04-0044.

1.3.43 Ewans, K.C., Bitner-Gregersen, E. and Guedes Soares, C. (2004), "Estimation of Wind-Sea and Swell Components in a Bimodal Sea State", *Proceedings of the OMAE Specialty Conference on Integrity of Floating Production, Storage & Offloading (FPSO) Systems*, ASME, New York, Paper OMAE-FPSO'04-0045.

1.3.44 Guedes Soares, C. (2004), "Probabilistic Models of Wave Parameters for the Assessment of Green Water on FPSO's", *Proceedings of the OMAE Specialty Conference on Integrity of Floating Production, Storage & Offloading (FPSO) Systems*, ASME, New York, Paper OMAE-FPSO'04-0061.

1.3.45 Cieslikiewicz, W., Paplinska-Swerpel, B. and Guedes Soares, C. (2004), "Multi-Decadal Wind Wave Modelling Over the Baltic Sea", *Proceedings of the 29th International Conference on Coastal Engineering (ICCE´04)*, 19-24 September, Lisbon, Portugal, Paper nº 226.

1.3.46 Guedes Soares, C. and Veltcheva, A. (2004), "Wave Data Analysis by Hilbert Huang Transform and Conventional Discretization Methods", *Proceedings of the 29th International Conference on Coastal Engineering (ICCE´04)*, 19-24 September, Lisbon, Portugal, Paper nº 331.

1.3.47 Léon, S.P., Pilar, P. and Guedes Soares, C. (2004), "On the Accuracy of Wave Models in the Coastal Zone", *Proceedings of the 29th International Conference on Coastal Engineering (ICCE´04)*, 19-24 September, Lisbon, Portugal, Paper nº 53.

1.3.48 Rusu, E., Matulea, I. and Rusu, L. (2004), "Linear e Non Linear Models to Assess the Wave Induce Currents in the Nearshore", *Proceedings of the 7th International Conference on Marine Science and Technology (BlackSea´04)*, 7-9 October, Varna, Bulgaria, Vol. I, pp. 150-158.

1.3.49 Rusu, E, Rusu, L. and Matulea, I. (2004), "Prediction of the Nearshore Wave Propagation with Spectral Models", *Proceedings of the 7th International Conference on Marine Science and Technology (BlackSea´04)*, 7-9 October, Varna, Bulgaria, Vol. I, pp. 142-150.

1.3.50 Valchev, N., Pilar, P., Cherneva, Z. and Guedes Soares, C. (2004), "Set-up and Validation of a Third-Generation Wave Model for the Black Sea", *Proceedings of the 7th International Conference on Marine Science and Technology (BlackSea´04)*, 7-9 October, Varna, Bulgaria, Vol. I, pp. 295-304.

1.3.51 Pascoal, R., Guedes Soares, C. and Sorensen, A.J. (2005), "Ocean Wave Spectral Estimation Using Vessel Wave Frequency Motions", *Proceedings of 24th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´05)*, 12-17 June, Halkidiki, Greece, ASME, New York, Paper OMAE2005-67584.

1.3.52 Rusu, L., Pilar, P. and Guedes Soares, C. (2005), "Hindcasts of the Wave Conditions in Approaches to ports of the North of Portugal", *Proceedings of 5th International Symposium on Ocean Waves Measurement and Analysis (WAVES´05)*, 3-7 July, CD Edition, Madrid, Spain.

1.3.53 León, S.P. and Guedes Soares, C. (2005), "Influence of Spatial Resolution on the Modelled Waves Sheltering Effect of Ocean Islands", *Proceedings of 5th International Symposium on Ocean Waves Measurement and Analysis (WAVES´05)*, 3-7 July, CD Edition, Madrid, Spain.

1.3.54 Veltcheva, A., Pascoal, R. and Guedes Soares, C. (2005), "Insight on the Nonlinearity of Sea Waves by Hilbert Huang Transform Method", *Proceedings of 5th International Symposium on Ocean Waves Measurement and Analysis (WAVES´05)*, 3-7 July, CD Edition, Madrid, Spain.

1.3.55 Guedes Soares, C. and Rusu, E. (2005), "SWAN Hindcast in the Black Sea", *Proceedings of 5th International Symposium on Ocean Waves Measurement and Analysis (WAVES´05)*, 3-7 July, CD Edition, Madrid, Spain.

1.3.56 Pulquério, D., Sá, R., Sebastião, P. and Guedes Soares, C. (2005), "Development of a Prototype of a Decision Support Computer System for the Combat of Oil Pollution at Sea", *Proceedings of the Coastal Conservation and Management in the Atlantic and Mediterranean* (*ICCCM´05)*, 17-20 April Algarve, Portugal, pp. 153-154.

1.3.57 Pulquério, D., Sá, R., Sebastião, P. and Guedes Soares, C. (2005), "Prototype of a Support Computer System in the Prevention and Combat Marine Pollution", *Proceedings of the 1st International Congress "Birds of the Atlantic"* (in Portuguese), 29 October - 1 November, São Vicente, Madeira, Portugal.

1.3.58 Rusu, L., Pilar, P. and Guedes Soares, C. (2005), "Wave hindcast on the Continental Coast of the Southern Portugal", *Proceedings of the 4th Portuguese Seminar on Coastal Engineering* (in Portuguese), 20-21 October, Azores, Portugal.

1.3.59 Leon, S.P. and Guedes Soares, C. (2005), "Wave hindcast wave in the Azores", *Proceedings of the 4th Portuguese Seminar on Coastal Engineering* (in Portuguese), 20-21 October, Azores, Portugal.

1.3.60 Slunyaev, A., Pelinovsky, E. and Guedes Soares, C. (2005), "Analysis and Simulation of Freak Waves in the North Sea", *Proceedings of the International Symposium on Topical Problems of Nonlinear Wave Physics*, 2-9 August, St. Petersburg, N. Novgorod, Russia.

1.3.61 Antão, E.M. and Guedes Soares, C. (2006), "On the Occurrence of Abnormal Waves in an Offshore Tank", *Proceedings of the 25th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´06)*, 4-9 June, Hamburg, Germany, ASME, New York, Paper OMAE2006-92667.

1.3.62 Neves, C., Scotto, M.G. and Guedes Soares, C. (2006), "On the Statistical Choice of Extreme Domains of Attraction in Long-Term Predictions of Significant Wave Height", *Proceedings of the 25th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´06)*, 4-9 June, Hamburg, Germany, ASME, New York, Paper OMAE2006-92458.

1.3.63 Antão, E.M. and Guedes Soares, C. (2006), "Influence of Current on the Probability Distribution of Wave Asymmetry and Steepness", *Proceedings of the 9th International Conference on Stability of Ships and Ocean Vehicles (STAB´06)*, 25-29 September, Rio de Janeiro, Brazil.

1.3.64 Petrova, P.G. and Guedes Soares, C. (2006), "Distribution of Shallow Water Wave Heights in an Offshore Basin in the Presence of Currents", *Proceedings of the 8th International Conference on Marine Sciences and Technologies (BlackSea´06)*, 25-27 September, Varna, Bulgaria, pp. 205-211.

1.3.65 Petrova, P.G. and Guedes Soares, C. (2006), "Spatial Variability of the Wave Field Generated in an Offshore Basin", *Proceedings of the 9th International Conference on Stability of Ships and Ocean Vehicles (STAB´06)*, 25-29 September, Rio de Janeiro, Brazil.

1.3.66 Petrova, P.G. and Guedes Soares, C. (2006), "Statistics of Nonlinear Shallow Water Waves Generated in an Offshore Basin in the Presence of Currents", *Proceedings of the 8th International Conference on Marine Sciences and Technologies (BlackSea´06)*, 25-27 September, Varna, Bulgaria, pp. 212-218.

1.3.67 Rusu, L. and Guedes Soares, C. (2006), "Wave Modelling in the Black Sea Western Nearshore", *Proceedings of the 8th International Conference on Marine Sciences and Technologies (BlackSea´06)*, 25-27 September, Varna, Bulgaria, pp. 182-187.

1.3.68 Cherneva, Z., Guedes Soares, C. and Antão, E.M. (2006), "Some Characteristics of the Largest Waves in the North Sea", *Proceedings of the 8th International Conference on Marine Sciences and Technologies (BlackSea´06)*, 25-27 September, Varna, Bulgaria, pp. 175-181.

1.3.69 Rusu, E., Rusu, L. and Guedes Soares, C. (2006), "Prediction of Extreme Wave Conditions in the Black Sea with Numerical Models", *Proceedings of the 9th International Workshop on Wave Hindcasting and Forecasting (9WW)*, 24-29 September, Victoria, B.C., Canada.

1.3.70 Arena, F. and Guedes Soares, C. (2007), "Nonlinear Peak to Trough Distributions in Sea States with Double-Peaked Spectra", *Proceedings of the 26th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´07)*, 10-15 June, San Diego, USA, ASME, New York, Paper OMAE2007-29733.

1.3.71 Soares, C.S. and Guedes Soares, C. (2007), "Comparison of Bivariate Models of Distributions of Significant Wave Height and Wave Period", *Proceedings of the 26th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´07)*, 10-15 June, San Diego, USA, ASME, New York, Paper OMAE2007-29740.

1.3.72 Rusu, L., Bernardino, M. and Guedes Soares, C. (2007), "Wave modelling in the Tagus estuary", *Proceedings of the 5th Portuguese Seminar on Coastal and Port Engineering* (in Portuguese), 11-12 October, Lisbon, Portugal.

1.3.73 Rusu, E., Pilar, P. and Guedes Soares, C. (2007), "Assessment of Waves and Drifting along the Portuguese coast", *Proceedings of the 5th Portuguese Seminar on Coastal and Port Engineering* (in Portuguese), 11-12 October, Lisbon, Portugal.

1.3.74 Antão, E. and Guedes Soares, C. (2007), "Comparison of the characteristics of large waves in an offshore basin and in full scale", *Proceedings of the 3rd International Workshop on Applied Offshore Hydrodynamics*, 17-19 October, Rio de Janeiro, Brazil.

1.3.75 Petrova, P.G. and Guedes Soares, C. (2007), "Maximum Wave Crest and Height Statistics of Irregular and Abnormal Waves in an Offshore Basin", *Proceedings of the 3rd International Workshop on Applied Offshore Hydrodynamics*, 17-19 October, Rio de Janeiro, Brazil.

1.3.76 Rusu, E., Pilar, P. and Guedes Soares, C. (2007), "Assessment of waves in the Madeira Archipelago with spectral modelling", *Proceedings of the IV Congress on Planning and Management of Coastal Areas of the Portuguese-speaking Countries* (in Portuguese), 17-19 October, Funchal, Madeira, Portugal.

1.3.77 Leon, S.P., Silva, A.L. and Guedes Soares, C. (2007), "Hindcast of the Wave Conditions in the Cabo Verde Archipelago", *Proceedings of the IV Congress on Planning and Management of Coastal Areas of the Portuguese-speaking Countries* (in Portuguese), 17-19 October, Funchal, Madeira, Portugal.

1.3.78 Rusu, E. and Guedes Soares, C. (2008), "Wave Energy Assessments in the Coastal Environment of Portugal Continental", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-57820.

1.3.79 Cherneva, Z., Guedes Soares, C. and Petrova, P.G. (2008), "Distribution of Wave Height Maxima in Storm Sea States", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-58038.

1.3.80 Nunes, L., Guedes Soares, C. and Lima, J. (2008), "Separation of Wave Systems in Time Series of Combined Sea States", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-57643.

1.3.81 Rusu, L., Bernardino, M. and Guedes Soares, C. (2008), "Influence of the Wind Fields on the Accuracy of Numerical Wave Modelling in Offshore Locations", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-57861.

1.3.82 Petrova, P.G., Guedes Soares, C. and Cherneva, Z. (2008), "Influence of the Third Order Nonlinearity on the Distribution of Wave Height Maxima in an Offshore Basin", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-58049.

1.3.83 Saprykina, Y., Andreeva, N., Kuznetsov, S., Cherneva, Z. and Guedes Soares, C. (2008), "A Physical Model of Wind Waves in the Coastal Zone", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008- 57163.

1.3.84 Bernardino, M., Boukhanovsky, A. and Guedes Soares, C. (2008), "Alternative Approachs to Storm Statistics in the Ocean", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-58053.

1.3.85 Arena, F. and Guedes Soares, C. (2008), "On Sequence of High Waves in Nonlinear Groups", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008- 57889.

1.3.86 Petrova, P. and Guedes Soares, C., (2008), "Statistical and Spectral Properties of Bimodal Seas Generated in an Offshore Basin", *Proceedings of the DTEC´08*, Shanghai, China.

1.3.87 Petrova, P. and Guedes Soares, C. (2009), "Wave Height Distributions of Laboratory Generated Bimodal Seas with Abnormal Waves", *Proceedings of the International Conference in Ocean Engineering (ICOE´09)*, 5 February, Chennai, India.

1.3.88 Antão, E., Arena, F., Guedes Soares, C. and Romolo, A. (2009), "Steepness of High Ocean Waves in Quasi-Deterministic Theory", *Proceedings of the 28th International Conference on Ocean, Offshore and Arctic Engineering (OMAE´09)*, 31 May-5 June, Honolulu, Hawaii, USA, ASME, New York, pp. 597-604, pp. 597-604.

1.3.89 Cherneva, Z., Tayfun, M.A. and Guedes Soares, C. (2009), "Statistics of Nonlinear Waves Simulated in a Wave Basin", *Proceedings of 28th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´09)*, 31 May-5 June, Honolulu, Hawaii, USA, ASME, New York.

1.3.90 Dong, S., Liu, W., Zhang, L. and Guedes Soares, C. (2009), "Long-Term Statistical Analysis of Typhoon Wave Heights with Poisson-Maximum Entropy Distribution", *Proceedings of 28th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´09)*, 31 May-5 June, Honolulu, Hawaii, USA, ASME, New York.

1.3.91 Dong, S., Fan, D., Shi, X. and Guedes Soares, C. (2009), "Typhoon Storm Surge Intensity Grade Classification in Qingdad Area", *Proceedings of 28th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´09)*, 31 May-5 June, Honolulu, Hawaii, USA, ASME, New York.

1.3.92 Lucas, C. and Guedes Soares, C. (2009), "Directional Distribution of Components in Combined Sea States", *Proceedings of the 6th Seminar on Coastal and Port Engineering* (in Portuguese), 8-9 October, Funchal, Portugal.

1.3.93 Gonçalves, M., Rusu, E. and Guedes Soares, C. (2009), "Comparison of the Swan and STWAVE Models on the Óbidos Coast", *Proceedings of the 6th Seminar on Coastal and Port Engineering* (in Portuguese), 8-9 October, Funchal, Portugal.

1.3.94 Bernardino, M., Rusu, L., Pilar, P., Silva, D., Bento, R. and Guedes Soares, C. (2009), "Performance assessment of the wave forecast system implemented for the ports of Sines and Leixões", *Proceedings of the 6th Seminar on Coastal and Port Engineering* (in Portuguese), 8-9 October, Funchal, Portugal.

1.3.95 Silva, D., Rusu, E. and Guedes Soares, C. (2009), "Modelling of sea conditions on the Figueira da Foz coastal with the SWAN spectral model", *Proceedings of the 6th Seminar on Coastal and Port Engineering* (in Portuguese), 8-9 October, Funchal, Portugal.

1.3.96 Bento, A.R., Rusu, E. and Guedes Soares, C. (2009), "Wave Modelling close to Leixões Harbor" (in Portuguese), *Actas do 6º Simpósio sobre el Margen Ibérico Atlântico (MIA 2009)*, 1-5 December, Oviedo, Spain.

1.3.97 Rusu, L., Bernardino, M. and Guedes Soares, C. (2009), "Influence of Wind Resolution on the Prediction of Waves Generated in an Estuary", *Proceedings of the 10th International Coastal Symposium (ICS2009)*, 13-18 April, Lisboa, Portugal.

1.3.98 Fedele, F., Cherneva, Z., Tayfun, M.A. and Guedes Soares, C. (2010), "Nonlinear Wave Statistics", *Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE´10)*, 6-11 June, Shanghai, China, ASME, New York, pp. 189-198.

1.3.99 Arena, F., Guedes Soares, C. and Petrova, P. (2010), "Theoretical Analysis of average wave steepness related to Peak Period or to Mean Period", *Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2010*), 6-11 June, Shanghai, China, ASME, New York, USA.

1.3.100 Rusu, L., Bernardino, M., Pilar, P. and Guedes Soares, C. (2010), "Forecast of waves in storm conditions at the entrance of the Tagus estuary" (in Portuguese), *Proceedings of "1as Jornadas de Engenharia Hidrográfica" (JEH 2010)*, 21-22 June, Lisboa, Portugal, pp. 25-28.

1.3.101 Rusu, L., Bernardino, M. and Guedes Soares, C. (2010), "Wave Forecast at the Entrance of the Tagus Estuary", *Proceedings of the 3rd International Conference (COASTLAB2010) on the Application of Physical Modelling to Port and Coastal Protection*, 28 Sept-01 Oct, Barcelona, Spain, pp. 1-7.

1.3.101a Lucas, C., Tello, M. and Guedes Soares, C. (2010), "On the interaction of waves and opposite current, *Actas das 1as Jornadas de Engenharia Hidrográfica (JEH 2010)*, 21-22 June, Lisboa, Portugal, pp. 181-184.

1.3.101b Bento, A.R., Silva, D., Rusu, L. and Guedes Soares, C. (2010), "Evaluation of the wave climate at the entrance of the ports of Faro and Setúbal (*in Portuguese*) ", *Actas das 1as Jornadas de Engenharia Hidrográfica (JEH 2010)*, Lisboa, Portugal, pp. 265-268.

1.3.101c Bernardino, M., Queirós, J. and Guedes Soares, C. (2010), "The application of a Lagrangeana methodology of storm identification to evaluate the vulnerability of two routes in the North Atlantic (*in Portuguese*)", *Actas das Jornadas de Engenharia Hidrográfica (JEH 2010)*, Lisboa, Portugal, pp. 37-40.

1.3.101d Campos, R. and Guedes Soares, C. (2010), "Evaluation of the performance of two hindcast studies of wave climate in the North Atlantic (*in Portuguese*)", *Actas das 1as Jornadas de Engenharia Hidrográfica (JEH 2010)*, Lisboa, Portugal, pp. 185-188.

1.3.101e Goncalves, M., Rusu, E. and Guedes Soares, C. (2010), "Comparison between the SWAN and STWAVE models in the coastal area of the port of Leixões (*in Portuguese*)", *Actas das 1as Jornadas de Engenharia Hidrográfica (JEH 2010)*, Lisboa, Portugal, pp. 277-280.

1.3.102 Bento, A.R., Martinho, P., Campos, R. and Guedes Soares, C. (2011), "Modelling Wave Energy resources in the Irish West Coast", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper OMAE2011-50346.

1.3.103 Cherneva, Z. and Guedes Soares, C. (2011), "Non-Gaussian Wave Groups Generated in an Offshore Wave Basin and their Statistics", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper OMAE2011-50317.

1.3.104 Slunyaev, A., Pelinovsky, E. and Guedes Soares, C. (2011), "Reconstruction of Extreme Events through Numerical Simulations", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper OMAE2011-50314.

1.3.105 Petrova, P.G., Tayfun, M.A. and Guedes Soares, C. (2011), "The Effect of Third Order Nonlinearities on the Statistics Distributions of Wave Heights, Crests and Troughs in Bimodal Crossing Seas", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper OMAE2011-50313.

1.3.106 Lucas, C., Muraleedharan, G. and Guedes Soares, C. (2011), "Application of Regional Frequency Analysis for Identification of Homogeneous Regions of Design Wave Conditions Offshore Portugal" *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper OMAE2011-50214.

1.3.107 Tao, S., Dong, S., Lei, S. and Guedes Soares, C. (2011), "Interval Estimation of Return Wave Height for Marine Structural Design", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper OMAE2011-49421.

1.3.108 Rusu, L. and Guedes Soares, C. (2011), "Evaluation of the Operational System for Wave Climate Forecast Installed for the Port of Leixões" (in Portuguese), *Proceedings of "7as Jornadas Portuguesas de Engenharia Costeira e Portuária" (JPECP 2011)*, 6-7 October, Porto, Portugal.

1.3.109 Silva, D., Martinho, P. and Guedes Soares, C. (2011), "Modelling Wave Energy in the Pilot Areas of Aguçadoura and São Pedro de Moel" (in Portuguese), *Proceedings of "7as Jornadas Portuguesas de Engenharia Costeira e Portuária" (JPECP 2011)*, 6-7 October, Porto, Portugal.

1.3.110 Rusu, E., Gonçalves, M. and Guedes Soares, C. (2011), "Evaluation of Wave Transformation in coastal and port areas with the SWAN and FUNWAVE models" (in Portuguese), *Proceedings of "7as Jornadas Portuguesas de Engenharia Costeira e Portuária" (JPECP 2011)*, 6-7 October, Porto, Portugal.

1.3.111 Bento, A.R., Martinho, P. and Guedes Soares, C. (2011), "Modelling Wave Energy Resources for UK's Southwest Coast", *Oceans 2011 IEEE OES Conference and Exhibition*, 6-9 June, Santander, Spain.

1.3.112 Guedes Soares, C. (2011), "Challenges in Manoeuvring and Control of Ships in Waves", *NATO RTO AVT-189 Specialist Meeting on 'Assessment of Stability and Control Prediction Methods for NATO Air & Sea Vehicles'*, 12-14 October, Portsdown, UK.

1.3.113 Petrov, V. and Guedes Soares, C. (2012), "The effect of wave directionality on extreme significant wave height predictions", *20th Symposium on Theory and Practice of Shipbuilding (SORTA 2012)*, 27-29 September, Zagreb, Croatia.

1.3.114 Goncalves, M., Martinho, P. and Guedes Soares, C. (2012), "Evaluation of the wave energy resource in the western French coast", *4th International Conference on Ocean Energy (ICOE 2012)*, 17-19 October, Dublin, Ireland.

1.3.115 Vettor, R. and Guedes Soares, C. (2012), "Seasonal Bias in the Voluntary Ship Observations of Significant Wave Height in a North Atlantic Location", *17th International Conference on Ships and Shipping Research (NAV 2012)*, 17-19 October, Naples, Italy.

1.3.116 Santoro, A., Guedes Soares, C. and Arena, F. (2013), "Analysis of experimental results on the Space-time evolution of wave groups in crossing seas", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

1.3.117 Salvacao, N., Bernardino, M. and Guedes Soares, C. (2013), "Validation of a regional atmospheric model for assessing the offshore wind resources along the Portuguese coast", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

1.3.118 Zhang, H., Cherneva, Z., Guedes Soares, C. and Onorato, M. (2013), "Comparison of Distributions of Wave Heights from Nonlinear Schroedinger Equation Simulations and Laboratory Experiments", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

1.3.119 Semedo, A., Vettor, R., Breivik, O., Sterl, A., Reistad, M. and Guedes Soares, C. (2013), "Wind sea and Swell Waves in the Nordic Seas", *13th International Workshop on Wave Hindcasting and Forecasting and 4th Coastal Hazards Symposium (WHF)*, 27 October - -1 November, Banff, Canada.

1.3.120 Humeniuk, J.F., Ponce de Leon, S., Violante-Carvalho, N., Carvalho, L.M. and Guedes Soares, C. (2013), "Sheltering effect of Islands on the Pacific swell", *6th SCACR International Short Course/Conference on Applied Coastal Research*, 4-7 June, Lisbon, Portugal.

1.3.121 Humeniuk, J.F., Violante-Carvalho, N., Ponce de Leon, S. and Guedes Soares, C. (2013), "Effect of Islands on the wave fields inferred from SAR images, wave buoys and WAM model (*in Portuguese*)", *X Simpósio sobre Ondas, Marés, Engenharia Oceânica e Oceanografia por Satélite – OMAR-SAT*, 15-18 October, Arraial do Cabo, RJ, Brazil.

1.3.122 Humeniuk, J.F., Violante-Carvalho, N., Ponce de Leon, S., Guedes Soares, C. and Carvalho, L.M. (2013), "The effect of islands on the wind wave spectrum observed in SAR images", *2013 European Space Agency Living Planet Symposium (ESA-LPS)*, 9 - 13 September, Lisbon, Portugal.

1.3.122a Ponce de Leon, S. and Guedes Soares, C. (2014), "Extreme Wave Parameters Under North Atlantic Extratropical Cyclones", *WISE Meeting - ECMWF*, 8-12 June, Reading, UK.

1.3.123 Laface, V., Arena, F. and Guedes Soares, C. (2014), "On variability of mean wave direction during severe storms", *Proceedings of the 33rd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2014)*, San Francisco, CA, USA, 8-13 June, Paper: OMAE2014-24633.

1.3.124 Ponce de Leon, S., Gomez, J., Sanchez-Arcilla, A. and Guedes Soares, C. (2014), "Comparison of extreme storms in the North Atlantic and Mediterranean", *3rd IAHR Europe Congress (2014)*, 14-16 April, Porto, Portugal.

1.3.125 Campos, R., Guedes Soares C., Alves, J-H. and Parente, C.E. (2016), "Impact of different wind fields and wave model parametrizations on extreme events of wave height in southern Brazil", *WISE Meeting 2016*, 22-26 May, Venice, Italy.

1.3.126 Bento, A.R., Goncalves, M., Campos, R. and Guedes Soares, C. (2016), "Comparison between two forecast systems implemented with WAM and Wavewatch 3 for the North Atlantic", *Proceedings of the 35th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2016)*, 19-24 June, Busan, South Korea.

1.3.127 Campos, R. and Guedes Soares, C. (2016), "Estimating extreme waves in Brazil using regional frequency analysis", *Proceedings of the 35th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2016)*, 19-24 June, Busan, South Korea.

1.3.128 Guedes Soares, C. (2016), "Prospects for marine renewable energy technology in view of climate change", *L'Afrique face aux changements climatiques*, 18-19 October, Casablanca, Morocco.

1.3.129 Osborne, A.R. and Ponce de Leon, S. (2017), "Properties of rogue waves and the shape of the ocean wave power spectrum", *Proceedings of the ASME 2016 36th International Conference on Ocean, Offshore and Arctic Engineering (OMAE17)*, 25-30 June, Trondheim, Norway.

1.3.130 Ponce de Leon, S., Bettencourt, J., van Vledder, G., Doohan, P., Higgins, C., Guedes Soares, C. and Dias, F. (2018), "Performance of WAVEWATCH-III and SWAN models in the North Sea", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

1.3.131 Ponce de Leon, S., Osborne, A.R. and Guedes Soares, C. (2018), "On the importance of the exact nonlinear interactions in the spectral characterization of rogue waves", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

1.3.132 Rodriguez, G., Guedes Soares, C. and Nieto Borge, J.C. (2018), "Exploring distribuitonal properties of the maximum wave height in a sea state", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

1.3.133 Santoro, A., Arena, F. and Guedes Soares, C. (2018), "On the sequence of large waves from field data", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

1.3.133a Bernardino, M., Goncalves, M., Lucas, C. and Guedes Soares, C. (2018), "Numerical forecast of the weather in Portugal: the state-of-the-art and new challenges (*in Portuguese*), *IPMA Workshop*, 26-27 November, Lisbon, Portugal.

1.3.134 Campos, R. and Guedes Soares, C. (2019), "Global assessments of surface winds and waves from an ensemble forecast system suring staeliite data", *Proceedings of the ASME 2019 38th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2019)*, 9-14 June, Glasgow, Scotland, UK.

1.3.135 Campos, R., D'Agostini, A., Machado Cruz, L., Leite Frenea, B.R. and Guedes Soares, C. (2019), "Extreme wind and wave predictability from operational forecasts at the Drake Passage", *Proceedings of the ASME 2019 38th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2019)*, 9-14 June, Glasgow, Scotland, UK.

1.3.136 Vettor, R. and Guedes Soares, C. (2019), "Comparison of VOS and ERA-Interim wave data", *Proceedings of the ASME 2019 38th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2019)*, 9-14 June, Glasgow, Scotland, UK.

1.3.137 Bernardino, M., Goncalves, M. and Guedes Soares, C. (2020), "Assessing climate change in the North Atlantic wave regimes", *Proceedings of the ASME 2020 39th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2020)*, 28 June - 3 July, Fort Lauderdale, Florida, USA, paper: OMAE2020-18697.

1.3.138 Gramcianinov, C.B., Campos, R.M., Camargo, R. de, and Guedes Soares, C. (2020), "Relation Between Cyclone Evolution and Fetch Associated with Extreme Wave Events in the South Atlantic Ocean", *Proceedings of the ASME 2020 39th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2020)*, 28 June - 3 July, Fort Lauderdale, Florida, USA, paper: OMAE2020-18486.

1.3.139 Gramcianinov, C.B., Campos, R.M., Guedes Soares, C. and Camargo, R. de. (2020), "Comparison between ERA5 and CFS datasets of extratropical cyclones associated with extreme wave events in the Atlantic Ocean", *Proceedings of the ASME 2020 39th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2020)*, 28 June - 3 July, Fort Lauderdale, Florida, USA, paper: OMAE2020-18488.

1.3.140 Lucas, C., Bernardino, M. and Guedes Soares, C. (2020), "Relation between atmospheric circulation patterns in the North Atlantic and the sea states in the Iberian Peninsula", *Proceedings of the ASME 2020 39th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2020)*, 28 June - 3 July, Fort Lauderdale, Florida, USA, paper: OMAE2020-18654.

1.3.141 Ponce de Leon, S. (2020), "Validation of wave model simulations with satellite altimetry data", *European Space Agency (ESA)*, 24-29 September, Ponta Delgada, Sao Miguel, Azores Archipelago, Portugal.

1.3.142 Ponce de Leon, S., Bettencourt, J. H. and Dias, F. (2020), "Assessment of severe waves with satellite altimetry data and Doppler radar observations in the North Sea", *European Space Agency (ESA)*, 24-29 September, Ponta Delgada, Sao Miguel, Azores Archipelago, Portugal.

1.5 PhD Dissertations

1.5.1 Izquierdo, P. (2003), "Wave Modelling Fields by Remote Sensing", Universidad e Las Palmas Gran Canária, Espanha.

1.5.2 Ponce de Leon, S. (2008), "Sheltering Effect of Islands in Wave Model Predictions", Instituto Superior Técnico, Lisboa.

1.5.3 Nunes, L.M. (2009), "Environmental statistical analysis for use in Offshore Activities (*in Portuguese)*", Universidade Federal do Rio de Janeiro, Brazil.

1.5.4 Rusu, L. (2009), "Wave Modelling and Ship Response in Coastal Waters with Currents", Instituto Superior Técnico, Lisboa.

1.5.5 Petrova, P.G. (2011), "Second and third order models of large and abnormal waves", Instituto Superior Técnico, Lisboa.

1.5.6. Antão, E. (2012), "Probabilistic Models of Water Wave Stepness", Instituto Superior Técnico, Lisboa.

1.5.7. Santoro, A. (2014), “Nonlinear random waves in crossing seas and extreme wave groups”, Joint PhD in Naval Architecture and Marine Engineering of University “Mediterranea” of Reggio Calabria, Italy and Instituto Superior Técnico, Lisboa.

1.5.8. Campos, R.M. (2014), “Spatial Extreme Wave Analysis Using Numerical Model Results”, Joint PhD in Naval Architecture and Marine Engineering of Universidade Federal do Rio de Janeiro, Brazil and Instituto Superior Técnico, Lisboa.

1.5.9. Lucas Gaspar, C. (2014), “Long term probabilistic models of the wave climate”, PhD in Naval Architecture and Marine Engineering, Instituto Superior Técnico, Lisboa.

1.5.10. Veltcheva, A. (2016), “Nonlinearity and Non-stationarity of Sea Waves”, PhD in Naval Architecture and Marine Engineering, Instituto Superior Técnico, Lisboa.

1.5.11. Zhang, HD. (2016), “Numerical modeling of extreme waves and their effects on ships”, PhD in Naval Architecture and Marine Engineering, Instituto Superior Técnico, Lisboa.

1.6 MSc Dissertations

1.6.1. Caires, S. (1997), “Onboard Wave Forecasts”, University of Glasgow, United Kingdom.

1.6.2. Silva, F. (1997), “Interactive System to Display Oceanographic Data and Oil Spills Simulation (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

1.6.3. Henriques, A.C. (1999), “Spectral Models of Sea Waves”, Instituto Superior Técnico, Lisboa.

1.6.4. Sebastião, P. (2001), “Uncertainty Modelling in the Predictions of the Fate of Oil Spills at Sea”, Instito Superior Técnico, Lisboa.

1.6.5. Pilar, P. (2002), “Fifteen Years Wave Hindcast on the Exclusive Economic Zone of Portugal, Instituto Superior Técnico, Lisboa.

1.6.6. Carvalho, A.N. (2003), “Spectral and Probabilistic Models of Combined Sea States”, Instituto Superior Técnico, Lisboa.

1.6.7. de Pablo, H. (2003), “Spectral Models of Ocean Waves with Currents”, Instituto Superior Técnico, Lisboa.

1.6.8. Elavai, V. (2003), “Modelling of Sea Surface Elevation in the Portuguese EEZ”, Instituto Superior Técnico, Lisboa.

1.6.9. Neves, S. (2004), “Analysis of the Current Field with Empirical Ortogonal Functions (*in Portuguese*), Instituto Superior Técnico, Lisboa.

1.6.10. Antao, E. (2006), “Probabilistic Models of the Wave Climate”, Instituto Superior Técnico, Lisboa.

1.6.11. Mihai, F. (2008), “Analysis of the Wave Climate in the Continental Portuguese Nearshore with Numerical Wave Models”, Instituto Superior Técnico, Lisboa.

1.6.12. Pereira, A. (2008), “Modelling the wave climate in coastal zones (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

1.6.13. Queirós, J. (2010), “Influence of the databases in the prediction of long-term wave induced loads in the North Atlantic (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

1.6.14. Zhang, H. (2011), “Analysis of laboratory generated sea waves”, Instituto Superior Técnico, Lisboa.

1.6.15. McSullea, G.T.P. (2017), “Wake of a catamaran navigating in restricted waters”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

1.6.16. Gonçalves, M. (2017), “Análise da energia das ondas num Arquipelago”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

1.6.17. Ramachandran, R. (2018), “Comparison of code performance in estimating added resistance of ships in waves”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa

1.6.18. Soares, F.L. (2019), “Characterization of the Brazilian Offshore Sea State Area”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa

2. Marine Dynamics and Hydrodynamics

2.1 Papers in Journals

2.1.1 Guedes Soares, C. (1980), "General Aspects of the Design of Ship Structures and Assessment of Design Loads" (in Portuguese), *Revista Portuguesa de Engenharia de Estruturas*, Vol. 3, Issue 9, pp. 159-168.

2.1.2 Guedes Soares, C. (1981), "Sea Loads in Offshore Platforms", (in Portuguese) *Revista Portuguesa de Engenharia de Estruturas*, Vol. 4, Issue 10, pp. 32-40.

2.1.3 Guedes Soares, C. (1989), "Transient Response of Ship Hulls to Wave Impact", *International Shipbuilding Progress*, Vol. 36, Issue 406, pp. 137-156.

2.1.4 Guedes Soares, C. (1990), "Effect of Heavy Weather Maneuvering on the Wave Induced Vertical Bending Moments in Ship Structures", *Journal of Ship Research*, Vol. 34, Issue 1, pp. 60-68.

2.1.5 Guedes Soares, C. (1990), "Effect of Spectral Shape Uncertainty in the Short Term Wave-Induced Ship Responses", *Applied Ocean Research*, Vol. 12, Issue 2, pp. 54-69.

2.1.6 Guedes Soares, C. (1990), "Stochastic Models of Load Effects for the Primary Ship Structure", *Structural Safety*, Vol. 8, pp. 353-368.

2.1.7 Guedes Soares, C. (1990), "Comparison of Measurements and Calculations of Wave Induced Vertical Bending Moments in Ship Models", *International Shipbuilding Progress*, Vol. 37, Issue 412, pp. 353-374.

2.1.8 Guedes Soares, C. (1991), "Effect of Transfer Function Uncertainty on Short Term Ship Responses", *Ocean Engineering*, Vol. 18, Issue 4, pp. 329-362.

2.1.9 Guedes Soares, C. and Moan, T. "Model Uncertainty in the Long Term Distribution of Wave Induced Bending Moments for Fatigue Design of Ship Structures", *Marine Structures*, 1991, Vol. 4, pp. 295-315.

2.1.10 Guedes Soares, C. (1992), "Combination of Primary Load Effects in Ship Structures", *Probabilistic Engineering Mechanics*, Vol. 7, pp. 103-111.

2.1.11 Guedes Soares, C. and Trovão, M.F.S. (1992), "Sensitivity of Ship Motion Predictions to Wave Climate Descriptions", *International Shipbuilding Progress*, Vol.39, Issue 418, pp.135-155.

2.1.12 Guedes Soares, C. (1993), "Long-Term Distribution of Non-Linear Wave Induced Vertical Bending Moments", *Marine Structures*, Vol. 6, pp. 475-483.

2.1.13 Guedes Soares, C. (1995), "Effect of Wave Directionality on Long-Term Wave Induced Load Effects in Ship", *Journal of Ship Research*, Vol. 39, Issue 2, pp.150-159.

2.1.14 Schellin, T.E., Ostergaard C. and Guedes Soares, C. (1996), "Uncertainty Assessment of Low Frequency Wave Induced Load Effects for Containerships", *Marine Structures*, Vol. 9, Issues 3-4, pp. 313-332.

2.1.15 Guedes Soares, C. and Schellin, T.E. (1996), "Long-Term Distribution of Non-Linear Wave Induced Vertical Bending Moments on a Containership", *Marine Structures*, Vol. 9, Issues 3-4, pp. 333-352.

2.1.16 Guedes Soares, C. (1996), "On the Definition of Rule Requirements for Wave Induced Vertical Bending Moments", *Marine Structures*, Vol. 9, Issues 3-4, pp. 409-426.

2.1.17 Fonseca, N., Perez, L., Rojas, L. and Guedes Soares, C. (1996), "Theoretical and Experimental Study of the Seakeeping of a Tuna Fishing Vessel" (in Portuguese), *Ingenieria Naval*, Issue 733, pp. 44-55.

2.1.18 Ramos, J. and Guedes Soares, C. (1997), "On the Assessment of Hydrodynamic Coefficients of Cylinders in Heaving", *Ocean Engineering*, Vol. 24, Issue 8, pp. 743-763.

2.1.19 Fonseca, N., Guedes Soares, C. and Incecik, A. (1997), "Numerical and Experimental Study of Large Amplitude Motions of Two-Dimensional Bodies in Waves", *Applied Ocean Research*, Vol. 19, Issue 1, pp. 35-47.

2.1.20 Ramos, J. and Guedes Soares, C. (1998), "Vibratory Response of Ship Hulls to Wave Impact Loads", *International Shipbuilding Progress*, Vol. 45, Issue 441, pp. 71-87.

2.1.21 Guedes Soares, C. and Schellin, T.E. (1998), "Nonlinear Effects on Long-Term Distributions of Wave-Induced Loads for Tankers", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 120, Issue 2, pp. 65-70.

2.1.22 Fonseca, N. and Guedes Soares, C. (1998), "Time-Domain Analysis of Large-Amplitude Vertical Ship Motions and Wave Loads", *Journal of Ship Research,* Vol. 42, Issue 2, pp. 139-153.

2.1.23 Watanabe, I. and Guedes Soares, C. (1999), "Comparative Study on the Time-Domain Analysis of Non-Linear Ship Motions and Loads", *Marine Structures*, Vol. 12, Issue 3, pp. 153-170.

2.1.24 Guedes Soares, C. (1999), "On the Uncertainty in Long-term Predictions of Wave Induced Loads on Ships", *Marine Structures*, Vol. 12, Issue 3, pp. 171-182.

2.1.25 Haddara, M.R. and Guedes Soares, C. (1999), "Wind Loads on Marine Structures", *Marine Structures*, Vol. 12, Issue 3, pp. 199-209.

2.1.26 Ramos, J., Incecik, A. and Guedes Soares, C. (2000), "Experimental Study of Slam Induced Stresses in a Containership", *Marine Structures*, Vol. 13, Issue 1, pp. 25-51.

2.1.27 Santos, T.A. and Guedes Soares, C. (2000), "Damage Stability and Safety of Passenger Ferries" (in Portuguese), *Ingenium*, 2nd Series, Vol. 52, pp. 94-98.

2.1.28 Centeno, R., Fonseca, N. and Guedes Soares, C. (2000), "Prediction of Motions of Catamarans Accounting for Viscous Effects", *International Shipbuilding Progress*, Vol. 47, pp. 303-323.

2.1.29 Centeno, R., Varyani K.S. and Guedes Soares, C. (2001), "Experimental Study on the Influence of Hull Spacing on Hard Chine Catamaran Motions", *Journal of Ship Research,* Vol. 45, Issue 3, pp. 216-227.

2.1.30 Guedes Soares, C., Machado Santos, F., Pascoal, R. and Costa, M. (2001), "Measurement of the Dynamic Behavior of a Patrol Boat in Sea Trials" (in Portuguese)", *Mecânica Experimental*, Vol. 6, pp.1-9.

2.1.31 Sutulo, S., Moreira L. and Guedes Soares, C. (2002), "Mathematical Models for Ship Path Prediction in Manoeuvring Simulation Systems", *Ocean Engineering*, Vol. 29, Issue 1, pp. 1-19.

2.1.32 Santos, T.A., Winkle, I.E. and Guedes Soares, C. (2002), "Time Domain Modelling of the Transient Asymmetric Flooding of Ro-Ro Ships", *Ocean Engineering*, Vol. 29, Issue 6, pp. 667-688.

2.1.33 Fonseca, N. and Guedes Soares, C. (2002), "Comparison of Numerical and Experimental Results of Nonlinear Wave-Induced Vertical Ship Motions and Loads", *Journal of Marine Science and Technology*, Vol. 6, pp. 139-204.

2.1.34 Sutulo, S. and Guedes Soares, C. (2002), "An Algorithm for Optimized Design of Manoeuvring Experiments", *Journal of Ship Research*, Vol. 46, Issue 3, pp. 214-227.

2.1.35 Moreira, L. and Guedes Soares, C. (2003), "Comparison between Manoeuvring Trials and Simulations with Recursive Neural Networks", *Ship Technology Research*, Vol. 50, pp. 77-84.

2.1.36 L. Moreira and Guedes Soares, C. (2003), "Dynamic Model of Manoeuvrability using Recursive Neural Networks", *Ocean Engineering*, Vol. 30, pp.1669-1697.

2.1.37 Guedes Soares, C., Francisco, R.A., Moreira, L. and Laranjinha, M. (2004), "Full-Scale Measurements of the Manoeuvering Capabilities of Fast Patrol Vessels, Argos Class", *Marine Technology*, Vol. 41, Issue 1, pp. 7-16.

2.1.38 Sutulo, S. and Guedes Soares, C. (2004), "A Boundary Integral Equations Method for Computing Inertial and Damping Characteristics of Arbitrary Contours in Deep Fluid", *Ship Technology Research*, Vol. 51, pp. 69-93.

2.1.39 S. Sutulo and C. Guedes Soares (2004), "Synthesis of Experimental Designs of Manouevring Captive-Model Tests with Large Number of Factors", *Journal of Marine Science and Technology*, Vol. 9, Issue 1, pp. 32-42.

2.1.40 Fonseca, N. and Guedes Soares, C. (2004), "Experimental Investigation of the Nonlinear Effects on the Vertical Motions and Loads of a Containership in Regular Waves", *Journal of Ship Research*, Vol. 148, Issue 2, pp. 118-147.

2.1.41 Fonseca, N. and Guedes Soares, C. (2004), "Experimental Investigation of the Nonlinear Effects on the Statistics of Vertical Motions and Loads of a Containership in Irregular Waves", *Journal of Ship Research*, Vol. 148, Issue 2, pp. 148-167.

2.1.42 Marón, A., Ponce, J., Fonseca, N. and Guedes Soares, C. (2004), "Experimental Investigation of a Fast Monohull in Forced Harmonic Motions", *Applied Ocean Research*, Vol. 26, pp. 241-255.

2.1.43 Fonseca, N. and Guedes Soares, C. (2004), "Validation of a Time-Domain Strip Method to Calculate the Motions and Loads on a Fast Monohull", *Applied Ocean Research*, Vol. 26, pp. 256-273.

2.1.44 Fonseca, N., Pascoal, R. and Guedes Soares, C. (2004), "Long Term Prediction of Nonlinear Vertical Bending Moments on a Fast Monohull", *Applied Ocean Research*, Vol. 26, pp. 288-297.

2.1.45 Fonseca, N. and Guedes Soares, C. (2005), "Comparison between Experimental and Numerical Results of the Nonlinear Vertical Ship Motions and Loads on a Containership in Regular Waves", *International Shipbuilding Progress*, Vol. 52, Issue 1, pp. 57-91.

2.1.46 Ribeiro and Silva, S., Santos, T.A. and Guedes Soares, C. (2005), "Parametrically Excited Roll in Regular and Irregular Head Seas", *International Shipbuilding Progress*, Vol. 52, Issue 1, pp. 29-56.

2.1.47 Sutulo, S. and Guedes Soares, C. (2005), "Numerical Study of Some Properties of Generic Mathematical Models of Directionally Unstable Ships", *Ocean Engineering*, Vol. 32, pp. 485-497.

2.1.48 Guedes Soares, C., Fonseca, N. and Pascoal, R. (2005), "Experimental and Numerical Study of the Motions of a Turret Moored FPSO in Waves", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 127, Issue 3, pp. 197-204.

2.1.49 Guedes Soares, C. and Pascoal, R. (2005), "Experimental Study of the Probability Distributions of Green Water on the Bow of Floating Production Platforms", *Journal of Offshore Mechanics and Arctic Engineering*, 2005, Vol. 127, Issue 3, pp. 234-242.

2.1.50 Fonseca, N. and Guedes Soares, C. (2005), "Experimental Investigation of the Shipping of Water on the Bow of a Containership", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 127, Issue 4, pp. 322-330.

2.1.51 Sutulo, S. and Guedes Soares, C. (2005), "An Implementation of the Method of Auxiliary State Variables for Solving Seakeeping Problems", *International Shipbuilding Progress*, Vol. 52, Issue 4, pp. 357-384.

2.1.52 Pascoal, R., Huang, S., Barltrop, N. and Guedes Soares, C. (2005), "Equivalent Force Model for the Effect of Mooring Systems on the Horizontal Motions", *Applied Ocean Research*, Vol. 27, pp. 165-172.

2.1.53 Varela, J.M. and Guedes Soares, C. (2005), "Virtual Environment for Ship Damage Control", *Computer Science and Technologies*, Vol. 1, pp. 47-52.

2.1.54 Castro, F. and Fonseca, N. (2005), "Sailing the Pepper Wreck: a Proposed Methodology for Understanding an Early 17th Century Portuguese Indiaman", *The International Journal of Nautical Archaeology*, Vol. 35.1, pp. 97-103.

2.1.55 Pascoal, R., Huang, S., Barltrop, N. and Guedes Soares, C. (2006), "Assessment of the Effect of Mooring Systems on the Horizontal Motions with an Equivalent Force to Model", *Ocean Engineering*, Vol. 33, pp. 1644-1668.

2.1.56 Ribeiro e Silva, S., Pascoal, R., Rodrigues, B. and Guedes Soares, C. (2006), "Forced Rolling Trials Onboard a Portuguese Navy Frigate", *Marine Technology*, Vol. 43, Issue 3, pp. 115-125.

2.1.57 Guedes Soares, C., Fonseca, N., Pascoal, R., Clauss, G.F., Schmittner, C.E., Stutz, K. and Hennig, J. (2006), "Analysis of Design Wave Induced Loads on a FPSO due to Abnormal Waves", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 128, pp. 241-247.

2.1.58 Fonseca, N., Guedes Soares, C. and Pascoal, R. (2006), "Structural Loads Induced in a Containership by Abnormal Wave Conditions", *Journal of Marine Science and Technology*, Vol. 11, pp. 245-259.

2.1.59 Sutulo, S. and Guedes Soares, C. (2006), "Development of a Multi-Factor Regression Model Based on Optimized Captive-Model Tests", *Journal of Ship Research*, Vol. 50, Issue 4, pp. 311-333.

2.1.60 Ciortan, C., Wanderley, J. and Guedes Soares, C. (2007), "Turbulent Free Surface Flow around a Wigley Hull Using the Slightly Compressible Flow Formulation", *Ocean Engineering*, Vol. 34, pp. 1383-1392.

2.1.61 Guedes Soares, C., Pascoal, R., Antão, E.M., Voogt, A. and Buchner, B. (2007), "An Approach to Calculate the Probability of Wave Impact on a FPSO Bow", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 129, Issue 2, pp. 73-80.

2.1.62 Ciortan, C. and Guedes Soares, C. (2007), "Computational Study of Sail Performance in Upwind Condition", *Ocean Engineering*, Vol. 34, pp. 2198-2206.

2.1.63 Moreira, L., Fossen, T.I. and Guedes Soares, C. (2007), "Path Following Control System for a Tanker Ship Model", *Ocean Engineering*, Vol. 34, pp. 2074-2085.

2.1.64 Sutulo, S. and Guedes Soares, C. (2007), "Contribution of Higher-Order Harmonics for Estimating Manoeuvring Derivatives from Oscillatory Tests", *International Shipbuilding Progress*, Vol. 54, pp. 1-24.

2.1.65 Santos, T.A., Fonseca, N. and Castro, F. (2007), "Naval Architecture Applied to the Reconstruction of an Early 17th Century Portuguese Nau", M*arine Technology*, Vol. 44, Issue 4, pp. 254-267.

2.1.66 Ciortan, C., Wanderley, J. and Guedes Soares, C. (2007), "An Assessment of the Boundary Conditions for Free Surface Simulations Using An Interface-Capturing Method", *Marine Systems & Ocean Technology*, Vol. 3, Issue 2, pp. 75-86.

2.1.67 Fonseca, N., Pascoal, R. and Guedes Soares, C. (2008), "Global Structural Loads Induced by Abnormal Waves and Design Storms on a FPSO", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 130, 021005.

2.1.68 Guedes Soares, C., Fonseca, N. and Pascoal, R. (2008), "Abnormal Wave Induced Load Effects in Ship Structures", *Journal of Ship Research*, Vol. 52, Issue 1, pp. 30-44.

2.1.69 Moreira, L. and Guedes Soares, C. (2008), "H_2 and H Designs for Diving and Course Control of an Autonomous Underwater Vehicle in Presence of Waves", *Journal of Oceanic Engineering*, Vol. 33, Issue 2, pp. 69-88.

2.1.70 Santos, T.A. and Guedes Soares, C. (2008), "Global Loads due to Progressive Flooding in Passenger Ro-Ro Ships and Tankers", *Ships and Offshore Structures*, Vol. 3, Issue 4, pp. 289-302.

2.1.71 Santos, T.A. and Guedes Soares, C. (2008), "Study of Damaged Ship Motions Taking into Account Floodwater Dynamics", *Journal of Marine Science and Technology*, Vol. 13, pp. 291-307.

2.1.72 Castro, F., Fonseca, N., Vacas, T. and Ciciliot, F. (2008), "A Quantitative Look at Mediterranean Lateen and Square-Rigged Ships (Part 1)", *International Journal of Nautical Archaeology*, Vol. 37, Issue 2, pp. 347-359.

2.1.73 Fonseca, N., Duarte, F., Gonçalves, G. and Farias, T. (2008), "Electric propulsion for vessels powered by hydrogen fuel cells and photovoltaic panels", *Ingenium*, Vol. 105, pp. 72-77.

2.1.74 Santos, F.M., Temarel, P.A. and Guedes Soares, C. (2009), "Modal Analysis of a Fast Patrol Boat Made of Composite Material", *Ocean Engineering*, Vol. 36, Issue 2, pp. 179-192.

2.1.75 Fonseca, N., Guedes Soares, C. and Pascoal, R., (2009), "Global Loads on a FPSO Induced by a Set of Freak Waves", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 131, Issue 1, 011103.

2.1.76 Ahmed, Y. and Guedes Soares, C., (2009), "Simulation of Free Surface Flow around a VLCC Hull using Viscous and Potential Flow Methods", *Ocean Engineering*, Vol. 36, Issues 9-10, pp. 691-696.

2.1.77 Sutulo, S., Rodrigues, J.M. and Guedes Soares, C. (2009), "Computation of Inertial and Damping Characteristics of Ship Sections in Shallow Water", *Ocean Engineering*, Vol. 36, Issue 14, pp. 1098-1111.

2.1.78 Santos, F.M., Temarel, P.A. and Guedes Soares, C. (2009), "On the limitations of two- and three-dimensional linear hydroelasticity analyses applied to a fast patrol boat", *Journal Engineering for the Maritime Environment*, Issue 152, pp. 457-478.

2.1.79 Maftei, C., Moreira, L. and Guedes Soares, C. (2009), "Simulation of the Dynamics of a Marine Diesel Engine", *Journal Maritime Engineering and Technology*, Vol. Part A, Issue A.15, pp. 29-43.

2.1.80 Fonseca, N., Farias, T., Duarte, F., Gonçalves, G. and Pereira, A. (2009), "The Hidrocat Project – An all electric ship with photovoltaic panels and hydrogen fuel cells", *World Electric Vehicle Journal*, Vol. 3, pp. 1-13.

2.1.81 Fonseca, N., Pessoa, J., Pascoal, R., Morais, T. and Dias, R. (2010), "Design Pressure Distributions on the Hull of the FLOW Wave Energy Converter", *Ocean Engineering*, Vol. 37, pp. 611-626.

2.1.82 Sutulo, S., Rodrigues, J.M. and Guedes Soares, C. (2010), "Hydrodynamic Characteristics of Ship Sections in Shallow Water with Complex Bottom Geometry", *Ocean Engineering*, Vol. 37, pp. 947-958.

2.1.83 Bhattacharjee, J. and Guedes Soares, C. (2010), "Wave interaction with a floating rectangular box near a vertical wall with step type bottom topography", *Journal of Hydrodynamics*, Vol. 22, Issue 5, pp. 91-96.

2.1.84 Fonseca, N., Pascoal, R., Guedes Soares, C., Clauss, G.F. and Schmittner, C.E. (2010), "Numerical and experimental analysis of extreme wave induced vertical bending moments on a FPSO", *Applied Ocean Research*, Vol. 32, pp. 374-390.

2.1.85 Ribeiro e Silva, S., Turk, A., Guedes Soares, C. and Prpiæ-Oršiæ, J. (2010), "On the Parametric Rolling of Container Vessels", *Brodogradnja*, Vol. 61, Issue 4, pp. 347-358.

2.1.86 Ahmed, Y., Fonfach, J.M.A. and Guedes Soares, C. (2010), "Numerical Simulation for the Flow around the Hull of the DTMB Model 5415 at Different Speeds", *International Review of Mechanical Engineering*, Vol. 4, No. 7, pp. 957-964.

2.1.86a Castro, F., Fonseca, N. and Wells, A. (2010), "Outfitting the Pepper Wreck", *Historical Archeology*, Vol. 44 (2), pp. 14-34.

2.1.87 Perera, L.P., Carvalho, J. and Guedes Soares, C. (2011), "Fuzzy-logic based decision making system for collision avoidance of ocean navigation under critical collision conditions", *Journal of Marine Science and Technology*, Vol. 16, Issue 1, pp. 84-99.

2.1.88 Mohapatra, S.C., Karmakar, D. and Sahoo, T. (2011), "On capillary gravity-wave motion in two-layer fluids", *Journal of Engineering Mathematics*, Vol. 71, pp. 253-277.

2.1.89 Datta, R., Rodrigues, J.M and Guedes Soares, C. (2011), "Study of the motions of fishing vessels by a time domain panel method", *Ocean Engineering*, Vol. 38, Issue 5-6, pp. 782-792.

2.1.90 Tello, M., Ribeiro e Silva, S. and Guedes Soares, C. (2011), "Seakeeping Performance of Fishing Vessels in Irregular Waves", *Ocean Engineering*, Vol. 38(5-6), pp. 763-773.

2.1.91 Mantari, J.L., Ribeiro e Silva, S. and Guedes Soares, C. (2011), "Loss of Fishing Vessel´s Intact Stability in Longitudinal Waves", *International Journal of Small Craft Technology (RINA Transactions Part B1)*, Vol. 153(Part B1), pp. B-23-B-37.

2.1.92 Bhattacharjee, J. and Guedes Soares, C. (2011), "Oblique Wave Interaction with a Floating Structure near a Wall with Stepped Bottom", *Ocean Engineering*, Vol. 38, Issue 13, pp. 1528-1544.

2.1.93 Matulja, D., Sportelli, M., Guedes Soares, C. and Prpić-Oršić, J. (2011), "Estimation of Added Resistance of a Ship in Regular Waves", *Brodogradnja*, Vol. 62, N º 3, pp. 259-264.

2.1.94 Moreira, L. and Guedes Soares, C. (2011), "Autonomous Ship Model to Perform Manoeuvring Tests", *Journal Maritime Research*, Vol. VIII, N.º 2, pp. 29-46.

2.1.95 Mantari, J.L., Ribeiro e Silva, S. and Guedes Soares, C. (2011), "Intact Stability of Fishing Vessel under Combined Action of Fishing Gear, Beam Waves and Wind", *Ocean Engineering*, Vol. 38, Issue 17-18, pp. 1989-1999.

2.1.96 Fonseca, N., Pessoa, J., Mavrakos, S. and Le Boulluec, M. (2011), "Experimental and Numerical Investigation of the Slowly Varying Wave Exciting Drift Forces on a Restrained Body in Bi-Chromatic Waves", *Ocean Engineering*, Vol. 38, pp. 2000-2014.

2.1.97 Fonseca, N., Ribeiro e Silva, S. and Pessoa, J. (2011), "Numerical modelling and assessment of the UGEN floating Wave Energy Converter", *International Journal of Maritime Engineering*, Vol. 153, pp. A115-A124.

2.1.98 Bhattacharjee, J. and Guedes Soares, C. (2012), "Flexural gravity wave over a floating ice sheet near a vertical wall", *Journal Engineering Mathematics*, Vol. 75, pp. 29-48.

2.1.99 Luo, HB., Wang, H. and Guedes Soares, C. (2012), "Numerical and experimental study of hydrodynamic impact and elastic response for one free-drop wedge with stiffened panels", *Ocean Engineering*, Vol. 40, pp. 1-14.

2.1.100 Ciortan, C., Wanderley, J. and Guedes Soares, C. (2012), "Free surface flow around a ship model using an interface-capturing method", *Ocean Engineering*, Vol. 44, pp. 57-67.

2.1.101 Karmakar, D. and Guedes Soares, C. (2012), "Scattering of gravity waves by a moored finite floating elastic plate", *Applied Ocean Research*, Vol. 34, pp. 135-149.

2.1.102 Perera, L.P., Carvalho, J.P. and Guedes Soares, C. (2012), "Intelligent Ocean Navigation & Fuzzy-Bayesian Decision-Action formulation", *IEEE Journal of Oceanic Engineering*, Vol. 37(2), pp. 204-219.

2.1.103 Perera, L. P. and Guedes Soares, C. (2012), "Pre-filtered Sliding Mode Control for Nonlinear Ship Steering Associated with Disturbances", *Ocean Engineering*, Vol. 51, pp. 49-62.

2.1.104 Datta, R. and Guedes Soares, C. (2012), "NURBS Based Scheme for Automatic Quadrilateral Mesh Generation for FE and BIEM Analysis", *Marine Systems & Ocean Technology*, Vol. 7(1), pp. 29-35.

2.1.105 Karmakar, D. and Guedes Soares, C. (2012), "Oblique scattering of gravity waves by finite floating membrane with changes in bottom topography", *Ocean Engineering*, Vol. 54, pp. 87-100.

2.1.106 Perera, L.P., Oliveira, P. and Guedes Soares, C. (2012), "Maritime Traffic Monitoring based on Vessel Detection, Tracking, State Estimation, and Trajectory Prediction", *Transactions on Intelligent Transportation Systems*, Vol. 13(3), pp. 1188-1200.

2.1.107 Sutulo, S., Guedes Soares, C. and Otzen, J.F. (2012), "Validation of potential-flow estimation of interaction forces acting upon ship hulls in side-to-side motion", *Journal of Ship Research*, Vol.56, Issue 3, pp. 129-145.

2.1.108 Moreira, L. and Guedes Soares, C. (2012), "Recursive Neural Network Model of Catamaran Manoeuvring", *Intl J Maritime Engineering*, Vol. 154, Issue Part A3, pp. A-121 - A-130.

2.1.109 Zhou, X., Sutulo, S. and Guedes Soares, C. (2012), "Computation of Ship Hydrodynamic Interaction Forces in Restricted Waters using Potential Theory", *Journal of Marine Science and Application*, Vol. 11, pp. 265-275.

2.1.110 Karmakar, D., Bhattacharjee, J. and Guedes Soares, C. (2012), "Scattering of gravity waves by multiple surface-piercing floating membrane", *Applied Ocean Research*, Vol. 39, pp. 40-52.

2.1.111 Wang, S. and Guedes Soares, C. (2012), "Analysis of the water impact of symmetric wedges with a multimaterila Eurerian Formulation", *International Journal of Maritime Engineering*, Vol. 154(4), pp. A-191 - A-205.

2.1.112 Santos, T.A., Fonseca, N., Castro, F. and Vacas, T. (2012), "Loading and Stability of a late 16th Century Portuguese Indiamen", *Journal of Archaeological Science*, Vol. 39(9), pp. 2835-2844.

2.1.113 Datta, R., Fonseca, N. and Guedes Soares, C. (2013), "Analysis of the forward speed effects on the radiation forces on a fast ferry", *Ocean Engineering*, Vol. 60, pp. 136-148.

2.1.114 Pessoa, J., Fonseca, N. and Guedes Soares, C. (2013), "Analysis of the First Order and Slowly Varying Motions of an Axissymmetrical Floating Body in Bichromatic Waves", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 135, 0011601.

2.1.115 Fonseca, N. and Pessoa, J. (2013), "Numerical modeling of a wave energy converter based on U-shaped interior oscillating water column", *Applied Ocean Research*, Vol. 40, pp. 60-73.

2.1.116 Perera, L. P. and Guedes Soares, C. (2013), "Lyapunov and Hurwitz based Controls for Input-Output Linearization applied Nonlinear Vessel Steering", *Ocean Engineering*, Vol. 66, pp. 58-68.

2.1.117 Wang, S. and Guedes Soares, C. (2013), "Slam-induced loads on bow-flared sections with various roll angles", *Ocean Engineering*, Vol. 67, pp. 45-57.

2.1.118 Rezanejad, K., Bhattacharjee, J. and Guedes Soares, C. (2013), "Stepped sea bottom effects on the efficiency of nearshore oscillating water column device", *Ocean Engineering*, Vol. 70, pp. 25-38.

2.1.119 Clauss, G.F., Klein, M., Guedes Soares, C. and Fonseca, N. (2013), "Response Based Identification of Critical Wave Scenarios", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 135, pp. OMAE2012-83861, 031107.

2.1.120 Ribeiro e Silva, S. and Guedes Soares, C. (2013), "Prediction of parametric rolling in waves with a time domain non-linear strip theory model", *Ocean Engineering*, Vol. 72, pp. 453-469.

2.1.121 Monarcha, A. and Fonseca, N. (2013), "Finite depth effects on the wave energy resource and the energy captured by a point absorber", *Ocean Engineering*, Vol. 67, pp. 13-26.

2.1.122 Pessoa, J. and Fonseca, N. (2013), "Investigation of depth effects on the wave exciting low frequency drift forces by different approximation methods", *Applied Ocean Research*, Vol. 42, pp. 182-199.

2.1.123 Uzunoglu, E., Ribeiro e Silva, S., Guedes Soares, C., Zamora, R. and Perez Rojas, L. (2013), "Numerical and experimental study of the parametric rolling of a fishing vessel in regular head seas", *International Journal of Maritime Engineering*, Vol. 155, pp. A-181 - A-188.

2.1.124 Cerveira, F., Fonseca, N. and Pascoal, R. (2013), "Mooring system influence on the efficiency of wave energy converters", *International Journal of Marine Energy*, Vol. 3-4, pp. 65-81.

2.1.125 Wang, S. and Guedes Soares, C. (2014), "Numerical study on the water impact of 3D bodies by an explicit finite element method", *Ocean Engineering*, Vol. 78, pp. 73-88.

2.1.126 Sutulo, S. and Guedes Soares, C. (2014), "An Algorithm for Offline Identification of Ship Manoeuvring Mathematical Models after Free-Running Tests", *Ocean Engineering*, Vol. 79, pp. 10-25.

2.1.127 Karmakar, D. and Guedes Soares, C. (2014), "Wave transformation due to multiple bottom-standing porous barriers", *Ocean Engineering*, Vol. 80, pp. 50-63.

2.1.128 Luo, W.L., Moreira, L. and Guedes Soares, C. (2014), "Manoeuvring Simulation of Catamaran by Using Implicit Models Based on Support Vector Machines", *Ocean Engineering*, Vol. 82, pp. 150-159.

2.1.129 Varela, J.M. and Guedes Soares, C. (2014), "Ring Discretization Method of the wave spectrum for real-time numerical simulations of the sea surface in Computer Graphics", *Computer Graphics and Applications (IEEE)*, Vol. 34, pp. 58-71.

2.1.130 Wang, S. and Guedes Soares, C. (2014), "Asymmetrical water impact of two-dimensional wedges with roll angle with multi-material Eulerean Formulation", *International Journal of Maritime Engineering*, Vol. 156, pp. A-115 - A130.

2.1.131 Hirdaris, S.E., Bai, W., Dessi, D., Ergin, A., Gu, X., Hermundstad, O.A., Ruijsmans, R., Iijima, K., Nielsen, U.D., Parunov, J., Fonseca, N., Papanikolaou, A., Argyriadis, K. and Incecik, A. (2014), "Loads for use in the design of ships and offshore structures", *Ocean Engineering*, Vol. 78, pp. 131-174.

2.1.132 Perera, L.P., Carvalho, J.P. and Guedes Soares, C. (2014), "Solutions to the Failures and Limitations of Mamdani Fuzzy Inference in Ship Navigation Systems", *Transactions on Vehicular Technology (IEEE)*, Vol. 63(4), pp. 1539-1554.

2.1.133 Guedes Soares, C., Bhattacharjee, J. and Karmakar, D. (2014), "Overview and prospects for development of wave and offshore wind energy", *Brodogradnja*, Vol. 65(2), pp. 87-109.

2.1.134 Varela, J.M., Rodrigues, J.M. and Guedes Soares, C. (2014), "On-board Decision Support System for Ship Flooding Emergency Response", *Procedia Computer Science*, Vol. 29, pp. 1688-1700.

2.1.135 Zhou, X., Sutulo, S. and Guedes Soares, C. (2014), "Computation of Ship-to-Ship Interaction Forces by a 3D Potential Flow Panel Method in Finite WATER Depth", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 136, 041301.

2.1.136 Luo, W.L., Guedes Soares, C. and Zou, Z. J. (2014), "Experimental and numerical study of the effect of a pier on ship trajectories in currents", *International Journal of Maritime Engineering*, Vol. 156(Part A1), pp. A-93 - A-104.

2.1.137 Wang, S., Luo, HB. and Guedes Soares, C. (2014), "Numerical prediction of slamming loads during water entry of a bow-flared section", *International Journal of Maritime Engineering*, Vol. 156 - Part A4, pp. A-303 - A-314.

2.1.138 Luo, W.L., Guedes Soares, C. and Zou, Z. (2014), "Neural-Network and L2-gain Based Cascaded Control of Underwater Robot Thrust", *Journal of Oceanic Engineering (IEEE)*, Vol. 39, pp. 630-640.

2.1.139 Rodrigues, J.M. and Guedes Soares, C. (2014), "Exact Pressure Integrations on Submerged Bodies in Waves Using a Quadtree Adaptive Mesh Algorithm", *International Journal for Numerical Methods in Fluids*, Vol. 76, pp. 632-652.

2.1.139a Ji, CY. and Xu, S. (2014), "Verification of a hybrid model test method for a deepwater floating system with large truncation factor", *Ocean Engineering*, Vol. 92, pp. 245-254.

2.1.139b Mohapatra, S.C. and Sahoo, T. (2014), "Oblique wave diffraction by a flexible floating structure in the presence of a submerged flexible structure", *Geophysical and Astrophysical Fluid Dynamics*, Vol. 108(6), pp. 615-638.

2.1.140 Rezanejad, K., Bhattacharjee, J. and Guedes Soares, C. (2015), "Analytical and numerical study of dual-chamber oscillating water columns on stepped bottom", *Renewable Energy*, Vol. 75, pp. 272-282.

2.1.141 Karmakar, D. and Guedes Soares, C. (2015), "Propagation of gravity waves past multiple bottom standing barriers", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 137, 011101.

2.1.142 Hinostroza, M.A., Luo, W.L. and Guedes Soares, C. (2015), "Robust Fin Control for Ship Roll Stabilization Based on L2-Gain Design", *Ocean Engineering*, Vol. 94, pp. 126-131.

2.1.143 Rajendran, S., Fonseca, N. and Guedes Soares, C. (2015), "Effect of surge motion on the vertical responses of ships in waves", *Ocean Engineering*, Vol. 96, pp. 125-138.

2.1.144 Wnek, A.D. and Guedes Soares, C. (2015), "CFD Assessment of the wind loads on an LNG carrier and floating platform models", *Ocean Engineering*, Vol. 97, pp. 30-36.

2.1.145 Perera, L.P., Oliveira, P. and Guedes Soares, C. (2015), "System Identification of Nonlinear Vessel Steering", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 137, 031302.

2.1.146 Corak, M., Parunov, J. and Guedes Soares, C. (2015), "Long-term prediction of combined wave and whipping bending moments of containership", *Ships and Offshore Structures*, Vol. 10(1), pp. 4-19.

2.1.147 Perera, L.P., Ferrari, V., Santos, F.P., Hinostroza, M.A. and Guedes Soares, C. (2015), "Experimental Evaluations on Ship Autonomous Navigation and Collision Avoidance by Intelligent Guidance", *Journal of Oceanic Engineering (IEEE)*, Vol. 40(2), pp. 374-387.

2.1.148 Uzunoglu, E. and Guedes Soares, C. (2015), "Automated Processing of Free Roll Decay Experimental Data", *Ocean Engineering*, Vol. 102, pp. 17-26.

2.1.149 Zhou, X., Sutulo, S. and Guedes Soares, C. (2015), "Simulation of hydrodynamic interaction forces acting on a ship sailing across a submerged bank or an approach channel", *Ocean Engineering*, Vol. 103, pp. 103-113.

2.1.150 Varela, J.M. and Guedes Soares, C. (2015), "Interactive 3D Desktop Ship Simulator for testing and training Offloading Manoeuvres", *Applied Ocean Research*, Vol. 51, pp. 367-380.

2.1.151 Pessoa, J., Fonseca, N. and Guedes Soares, C. (2015), "Numerical study of the Coupled Motion Responses in waves of side-by-side LNG floating systems", *Applied Ocean Research*, Vol. 51, pp. 350-366.

2.1.152 Wnek, A.D., Paço, A., Zhou, X., Sutulo, S. and Guedes Soares, C. (2015), "Experimental Study of Aerodynamic Loads on an LNG Carrier and Floating Platform", *Applied Ocean Research*, Vol. 51, pp. 309-319.

2.1.153 Sutulo, S. and Guedes Soares, C. (2015), "Development of a core mathematical model for arbitrary manoeuvres of a shuttle tanker", *Applied Ocean Research*, Vol. 51, pp. 293-308.

2.1.154 Siow, C.L., Koto, J., Yasukawa, H., Matsuda, A., Terada, D., Guedes Soares, C., Samad, M.Z.M. and Priyanto, A. (2015), "Wave induced motion of round shaped FPSO", *Journal of Subsea and Offshore - Science and Engineering*, Vol. 1, pp. 9-17.

2.1.155 Vasquez, G., Fonseca, N. and Guedes Soares, C. (2015), "Experimental and numerical study of the vertical motions of a Bulk Carrier and a Ro-Ro Ship in extreme waves", *Journal of Ocean Engineering and Marine Energy*, Vol. 1, pp. 237-253.

2.1.156 Zhang, J.F., Zhang, D., Yan, X.P., Haugen, S. and Guedes Soares, C. (2015), "A distributed anti-collision decision making formulation in multi-ship encounter situations under COLREGs", *Ocean Engineering*, Vol. 105, pp. 336-348.

2.1.157 Vettor, R. and Guedes Soares, C. (2015), "Computational system for planning search and rescue operations at sea", *Procedia Computer Science*, Vol. 51, pp. 2848-2853.

2.1.158 Varela, J.M., Rodrigues, J.M. and Guedes Soares, C. (2015), "3D simulation of ship motions to support the planning of rescue operations on damaged ships", *Procedia Computer Science*, Vol 51, pp. 2397-2405.

2.1.159 Rajendran, S., Fonseca, N. and Guedes Soares, C. (2015), "Simplified body nonlinear time domain calculation of vertical ship motions and wave loads in large amplitude waves", *Ocean Engineering*, Vol. 107, pp. 157-177.

2.1.160 Pessoa, J. and Fonseca, N. (2015), "Second-order low-frequency drift motions of a floating body calculated by different approximation methods", *Journal of Marine Science and Technology*, Vol. 20, pp. 357-372.

2.1.161 Bagbanci, H., Karmakar, D. and Guedes Soares, C. (2015), "Comparison of spar and semisubmersible floater concepts of offshore wind turbines using long-term analysis", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 137, 061601.

2.1.162 Perera, L.P. and Guedes Soares, C. (2015), "Collision risk detection and quantification in ship navigation with integrated bridge systems", *Ocean Engineering*, Vol. 109, pp. 344-354.

2.1.163 Varela, J.M. and Guedes Soares, C. (2015), "Software Architecture of an Interface for three-dimensional Collision Handling in Maritime Virtual Environments", *Simulation: Transactions of the Society for Modeling and Simulation International*, Vol. 9(8), pp. 735-749.

2.1.164 Rodrigues, J. M. and Guedes Soares, C. (2015), "A Generalized Adaptive Mesh Pressure Integration Technique Applied to Progressive Flooding of Floating Bodies in Still Water", *Ocean Engineering*, Vol. 110, pp. 140-151.

2.1.165 Siow, C.L., Koto, J., Yasukawa, H., Matsuda, A., Terada, D., Guedes Soares, C., Incecik, A. and Pauzi, M.A.G. (2015), "Mooring effect on wave frequency response of round shape FPSO", *Journal*

of Ocean, Mechanical and Aerospace - Science and Engineering - Jurnal Teknologi, Vol. 74(5), pp. 59-68.

2.1.166 Siow, C.L., Koto, J., Yasukawa, H., Matsuda, A., Terada, D. and Guedes Soares, C. (2015), "Theoretical review on prediction of motion response using deffraction potential and morison", *Journal of Ocean, Mechanical and Aerospace*, Vol. 18, pp. 8-13.

2.1.167 Wang, S., Karmakar, D. and Guedes Soares, C. (2016), "Hydroelastic impact of a horizontal floating plate with forward speed", *Journal of Fluids and Structures*, Vol. 60, pp. 97-113.

2.1.168 Wang, S. and Guedes Soares, C. (2016), "Experimental and numerical study of the slamming load on the bow of a chemical tanker in irregular waves", *Ocean Engineering*, Vol. 111, pp. 369-383.

2.1.169 Gaspar, J.F., Calvario, M. and Guedes Soares, C. (2016), "Power take-off system for wave energy converters based on hydraulic transformer units", *Renewable Energy*, Vol. 86, pp. 1232-1246.

2.1.170 Pessoa, J., Fonseca, N. and Guedes Soares, C. (2016), "Side-by-side FLNG and shuttle tanker linear and second order low frequency wave induced dynamics", *Ocean Engineering*, Vol. 111, pp. 234-253.

2.1.171 Xu, H.T. and Guedes Soares, C. (2016), "Vector Field Path Following for Surface Marine Vessel and Parameter Identification based on LS-SVM", *Ocean Engineering*, Vol. 113, pp. 151-161.

2.1.172 Rajendran, S., Fonseca, N. and Guedes Soares, C. (2016), "Body Nonlinear Time Domain Calculation of Vertical Ship Responses in Extreme Seas Accounting for 2nd order Froude-Krylov Pressure", *Applied Ocean Research*, Vol. 54, pp. 39-52.

2.1.173 Karmakar, D., Bagbanci, H. and Guedes Soares, C. (2016), "Long-term extreme load prediction of spar and semisubmersible floating wind turbines using the Environmental Contour Method", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 138, 021601.

2.1.174 Uzunoglu, E., Ribeiro e Silva, S., Guedes Soares, C., Maron, A. and Gutierrez, C. (2016), "The Effect of asymmetric cross-sections on hydrodynamic coefficients of a C11 type container vessel", *Ocean Engineering*, Vol. 113, pp. 264-275.

2.1.175 Zhou, X., Sutulo, S. and Guedes Soares, C. (2016), "Ship-Ship Hydrodynamic Interaction in Confined Waters with Complex Boundaries by a Panelled Moving Patch Method", *International Journal of Maritime Engineering*, Vol. 158(Part A1), pp. A-21 - A30.

2.1.176 Rezanejad, K., Bhattacharjee, J. and Guedes Soares, C. (2016), "Analytical and Numerical Study of Nearshore Multiple Oscillating Water Columns", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 138, 021901.

2.1.177 Sinha, A., Karmakar, D. and Guedes Soares, C. (2016), "Performance of optimally tuned arrays of heaving point absorbers", *Renewable Energy*, Vol. 92, pp. 517-531.

2.1.178 Luo, W.L., Guedes Soares, C. and Zou, Z. (2016), "Parameter Identification of Ship Manoeuvring Model Based on Support Vector Machines and Particle Swarm Optimization", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 138, 031101.

2.1.179 Mohapatra, S.C. and Guedes Soares, C. (2016), "Interaction of surface gravity wave motion with elastic bottom in three-dimensions", *Applied Ocean Research*, Vol. 57, pp. 125-139.

2.1.180 Hinostroza, M.A. and Guedes Soares, C. (2016), "Parametric estimation of the directional wave spectrum from ship motions", *International Journal of Maritime Engineering*, Vol. 158 (Part A2), pp. A-121 - A130.

2.1.181 Wang, S., Zhang, HD. and Guedes Soares, C. (2016), "Slamming occurrence for a chemical tanker advancing in extreme waves modelled with the nonlinar Schrodinger equation", *Ocean Engineering*, Vol. 119, pp. 135-142.

2.1.182 Rajendran, S., Fonseca, N. and Guedes Soares, C. (2016), "Prediction of vertical responses of a container ship in abnormal waves", *Ocean Engineering*, Vol. 119, 165-180.

2.1.183 Gaspar, J.F., Kamarlouei, M., Sinha, A., Xu, H.T., Calvario, M., Francois-Xavier, Fa., Robles, E. and Guedes Soares, C. (2016), "Speed control of oil-hydraulic power take-off system for oscillating body type wave energy converters", *Renewable Energy*, Vol. 97, pp. 769-783.

2.1.184 Zhou, X., Sutulo, S. and Guedes Soares, C. (2016), "A paving algorithm for dynamic generation of quadrilateral meshes for online numerical simulations of ship manoeuvring in shallow water", *Ocean Engineering*, Vol. 122, pp. 10-21.

2.1.185 Schumacher, A., Ribeiro e Silva, S. and Guedes Soares, C. (2016), "Experimental and numerical study of a containership under parametric rolling conditions in waves", *Ocean Engineering*, Vol. 124, pp. 385-403.

2.1.186 Papanikolaou, A., Zaraphonitis, G., Bitner-Gregersen, E., Shigunov, V., El Moctar, O., Guedes Soares, C., Reddy, D.N. and Sprenger, F., (2016), "Energy efficient safe ship operation (SHOPERA)", *Transportation Research Procedia*, Vol. 14, pp. 820-829.

2.1.187 Wang, S., Garbatov, Y., Chen, B.Q. and Guedes Soares, C. (2016), "Dynamic structural response of perforated plates subjected to water impact load", *Engineering Structures*, Vol. 125, pp. 179-190.

2.1.188 Rajendran, S. and Guedes Soares, C. (2016), "Numerical investigation of the vertical response of a containership in large amplitude waves", *Ocean Engineering*, Vol. 123, pp. 440-451.

2.1.189 Lavrov, A. and Guedes Soares, C. (2016), "Modelling the Heave Oscillations of Vertical Cylinders with Damping Plates", *International Journal of Maritime Engineering*, Vol. 158(A3), pp. A187 - A197.

2.1.190 Vettor, R. and Guedes Soares, C. (2016), "Rough Weather Avoidance Effect on the Wave Climate Experienced by Oceangoing Vessels", *Applied Ocean Research*, Vol. 59, pp. 606-6015.

2.1.191 Prpić-Oršić, J., Vettor, R., Faltinsen, O.M. and Guedes Soares, C. (2016), "The influence of route choice and operating conditions on fuel consumption and CO2 emission of ships", *Journal of Marine Science and Technololgy*, Vol. 21, pp. 434–457.

2.1.192 Wang, S. and Guedes Soares, C. (2016), "Stern slamming of a chemical tanker in irregular head waves", *Ocean Engineering*, Vol. 122, pp.322-332.

2.1.193 Balakhontceva, M., Karbovskii, V., Sutulo, S. and Boukhanovsky, A. (2016), "Multi-agent Simulation of Passenger Evacuation from a Damaged Ship under Storm Conditions", *Procedia Computer Science*, Vol. 80, pp. 2455-2464.

2.1.194 Rajendran, S., Vasquez, G. and Guedes Soares, C. (2016), "Effect of bow flare on the vertical ship responses in abnormal waves and extreme seas", *Ocean Engineering*, Vol. 124pp. 419-436.

2.1.195 Vasquez, G., Fonseca, N. and Guedes Soares, C. (2016), "Experimental and numerical vertical bending moments of a bulk carrier and a roll-on/roll-off ship in extreme waves", *Ocean Engineering*, Vol. 124, pp. 404-418.

2.1.196 Rajendran, S., Fonseca, N. and Guedes Soares, C. (2016), "Prediction of extreme motions and vertical bending moments on a cruise ship and comparison with experimental data", *Ocean Engineering*, Vol. 127, pp. 368-386.

2.1.197 Klein M., Clauss, G.F., Rajendran, S., Guedes Soares, C. and Onorato, M. (2016), "Peregrine breathers as design waves for wave-structure interaction", *Ocean Engineering*, Vol. 128, pp. 199-212.

2.1.198 Rajendran, S., Fonseca, N. and Guedes Soares, C. (2016), "A numerical investigation of the flexible vertical response of an ultra large containership in high seas compared with experiments", *Ocean Engineering*, Vol. 122, pp. 293-310.

2.1.199 Sinha, A., Karmakar, D. and Guedes Soares, C. (2016), "Shallow water effects on a hydraulic power take-off WEC with reactive control", *International Journal of Ocean and Climate Systems*, Vol. 7(3), pp. 108-117.

2.1.200 Sinha, A., Karmakar, D. and Guedes Soares, C. (2016), "Hydrodynamic performance of concentric arrays of point absorbers", *International Journal of Ocean and Climate Systems*, Vol. 7(3), pp. 88-94.

2.1.202 Perera, L.P., Oliveira, P. and Guedes Soares, C. (2016), "System Identification of Vessel Steering with Unstructured Uncertainties by Persistent Excitation Maneuvers", *Journal of Oceanic Engineering – IEEE*, Vol. 41(3), pp. 515-528.

2.1.203 Zhang, HD. and Guedes Soares, C. (2016), "Ship responses to abnormal waves simulated by the nonlinear Schrödinger equation", *Ocean Engineering*, Vol. 119, pp. 143-153.

2.1.204 Rodrigues, J.M. and Guedes Soares, C. (2017), "Still water vertical loads during transient flooding of a tanker in full load condition with a probabilistic damage distribution", *Ocean Engineering*, Vol. 129, pp. 480-494.

2.1.205 Pascoal, R., Perera, L.P. and Guedes Soares, C. (2017), "Estimation of Directional Sea Spectra from Ship Motions in Sea Trials", *Ocean Engineering*, Vol. 132, pp. 126-137.

2.1.206 Lavrov, A., Rodrigues, J.M., Gadelho, J.F.M. and Guedes Soares, C. (2017), "Calculation of hydrodynamic coefficients of ship sections in roll motion using Navier-Stokes equations", *Ocean Engineering*, Vol. 133, pp. 36-46.

2.1.207 Varela, J.M. and Guedes Soares, C. (2017), "Geometry and visual realism of ship models for digital ship bridge simulators", *Journal of Engineering for the Maritime Environment*, Vol. 231(1), pp. 329-341.

2.1.208 Rezanejad, K., Guedes Soares, C., López, I. and Carballo, R. (2017), "Experimental and numerical investigation of the hydrodynamic performance of an oscillating water column wave energy converter", *Renewable Energy*, Vol. 106, pp. 1-16.

2.1.209 Rodrigues, J.M. and Guedes Soares, C. (2017), "Froude-Krylov forces from exact pressure integrations on adaptive panel meshes in a time domain partially nonlinear model for ship motions", *Ocean Engineering*, Vol. 139, pp. 169-183.

2.1.210 Bahmyari, E., Khedmati, M.R. and Guedes Soares, C. (2017), "Stochastic Analysis of Coupled Heave-Roll Ship Motion Using the Domain Decomposition Chaotic Radial Basis Function", *Ocean Engineering*, Vol. 140, pp. 322-333.

2.1.211 Gaspar, J.F., Kamarlouei, M., Sinha, A., Xu, H.T., Calvario, M., Francois-Xavier, Fa., Robles, E. and Guedes Soares, C. (2017), "Analysis of electrical drive speed control limitations of a power take-off system for wave energy converters", *Renewable Energy*, Vol. 113, pp. 335-346.

2.1.212 Abbasnia, A. and Guedes Soares, C. (2017), "Exact evaluation of hydrodynamic loads on ships using NURBS surfaces and acceleration potential", *Journal of Engineering Analysis with Boundary Elements*, Vol. 85, pp. 1-12.

2.1.213 Wang, S. and Guedes Soares, C. (2017), "Hydroelastic analysis of a rectangular plate subjected to slamming loads", *Journal of Marine Science and Application*, Vol. 16, pp. 405-416.

2.1.214 Wang, S. and Guedes Soares, C. (2017), "Review of ship slamming loads and responses", *Journal Marine Science and Application*, Vol. 16, pp. 427-445.

2.1.215 Robertson, A.N., Wendt, F., Jonkman, J.M., Popko, W., Dagher, H., Gueydon, S., Qvist, J,; Vittori, F., Azcona, J., Uzunoglu, E., Guedes Soares, C., Harries, R., Yde, A., Galinos, C., Hermans, K., de Vaal, J.B., Bozonnet, P., Bouy, L., Bayati, I., Bergua, R., Galvan, J., Mendikoa, I., Sanchez, C.B., Shin, H., Oh, S., Molins, C. and Debruyne, Y. (2017), "OC5 Project Phase II: Validation of Global Loads of the DeepCwind Floating Semisubmersible Wind Turbine", *Energy Procedia*, Vol. 137, pp. 38-57.

2.1.216 Rajendran, S., Fonseca, N. and Guedes Soares, C. (2018), "Estimation of Short-and-Long Term Probability Distributions of Wave Induced Loads Acting on a Cruise Vessel in Extreme Seas", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 140, 021602.

2.1.217 Karmakar, D. and Guedes Soares, C. (2018), "Wave motion control over submerged horizontal plates", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 140, 031101.

2.1.218 Uzunoglu, E. and Guedes Soares, C. (2018), "On the model uncertainty of wave induced platform motions and mooring loads of a semisubmersible based wind turbine", *Ocean Engineering*, Vol. 148, pp. 277-285.

2.1.219 Wang, S. and Guedes Soares, C. (2018), "Simplified approach to dynamic responses of elastic wedges impacting with water", *Ocean Engineering*, Vol. 150, pp. 81-93.

2.1.220 Abbasnia, A. and Guedes Soares, C. (2018), "Fully nonlinear simulation of wave interaction with a cylindrical wave energy converter in a numerical wave tank", *Ocean Engineering*, Vol. 152, pp. 210-222.

2.1.221 Rezanejad, K. and Guedes Soares, C. (2018), "Enhancing the primary efficiency of an oscillating water column wave energy converter based on a dual-mass system analogy", *Renewable Energy*, Vol. 123, pp. 730-747.

2.1.222 Gadelho, J.F.M., Rodrigues, J.M., Lavrov, A. and Guedes Soares, C. (2018), "Heave and sway hydrodynamic coefficients of ship hull sections in deep and shallow water using Navier-Stokes equations", *Ocean Engineering*, Vol. 154, pp. 262-276

2.1.223 Abbasnia, A. and Guedes Soares, C. (2018), "Transient fully nonlinear ship waves using a three-dimensional NURBS numerical towing tank", *Journal of Engineering Analysis with Boundary Elements*, Vol. 91, pp. 44-49.

2.1.224 Raed, K. and Guedes Soares, C. (2018), "Variability effect of the drag and inertia coefficients on the Morison wave force acting on a fixed vertical cylinder in irregular waves", *Ocean Engineering*, Vol. 159, pp. 66-75.

2.1.225 Uzunoglu, E. and Guedes Soares, C. (2018), "Parametric modelling of marine structures for hydrodynamic calculations", *Ocean Engineering*, Vol. 160, pp. 181-196.

2.1.226 Xu, S., Ji, C. and Guedes Soares, C. (2018), "Experimental study on taut and hybrid moorings damping and their relation with system dynamics", *Ocean Engineering*, Vol. 154, pp. 322-340.

2.1.227 Abbasnia, A. and Guedes Soares, C. (2018), "Fully nonlinear propagation of waves in a uniform current using NURBS numerical wave tank", *Ocean Engineering*, Vol. 163, pp. 115-125.

2.1.228 Gaspar, J.F., Calvário, M., Kamarlouei, M. and Guedes Soares, C. (2018), "Design tradeoffs of an oil-hydraulic Power Take-Off for Wave Energy Converters", *Renewable Energy*, Vol. 129, pp. 245-259.

2.1.229 Mohapatra, S.C., Sahoo, T. and Guedes Soares, C. (2018), "Surface gravity wave interaction with a submerged horizontal flexible porous plate", *Applied Ocean Research*, Vol. 78, pp. 61-74.

2.1.230 Mohapatra, S.C., Sahoo, T. and Guedes Soares, C. (2018), "Interaction between surface gravity wave and submerged horizontal flexible structures", *Journal of Hydrodynamics*, Vol. 30(3), pp. 481-498.

2.1.231 Islam, H. and Guedes Soares, C. (2018), "Estimation of hydrodynamic derivatives of a container ship using PMM simulation in OpenFOAM", *Ocean Engineering*, Vol. 164, pp. 414-425.

2.1.232 Xu, H.T., Hinostroza, M.A. and Guedes Soares, C. (2018), "Estimation of Hydrodynamic Coefficients of a Nonlinear Manoeuvring Mathematical Model with Free-Running Ship Model Tests", *International Journal of Maritime Engineering (RINA Transactions Part A)*, Vol. 160(A3), pp. A-213 - A-225.

2.1.233 Xu, S., Ji, C.Y. and Guedes Soares, C. (2018), "Experimental and numerical investigation of a semi-submersible moored by hybrid mooring systems", *Ocean Engineering*, Vol. 163, pp. 641-678.

2.1.234 Bettencourt, J. and Dias, F. (2018), "Wall pressure and vorticity in the intermittently turbulent regime of the Stokes boundary layer", *Journal of Fluid Mechanics*, Vol. 851, pp. 479-506.

2.1.235 Wnek, A.D., Sutulo, S. and Guedes Soares, C. (2018), "CFD analysis of ship-to-ship hydrodynamic interaction", *Journal Marine Science and Application*, Vol. 17, pp. 21-37.

2.1.236 Xu, H.T. and Guedes Soares, C. (2018), "An Optimized Energy-Efficient Path Following Algorithm for Underactuated Marine Surface Ship Model", *International Journal of Maritime Engineering*, Vol. 160(Part 4), pp. A-411 - A421.

2.1.237 Rodrigues, J.M., Lavrov, A., Hinostroza, M.A. and Guedes Soares, C. (2018), "Experimental and numerical investigation of the partial flooding of a barge model", *Ocean Engineering*, Vol. 169, pp. 586-603.

2.1.238 Praveen, K.M., Karmakar, D. and Guedes Soares, C. (2018), "Hydroelastic analysis of articulated floating elastic plate based on Timoshenko-Mindlin plate theory", *Ships & Offshore Structures*, Vol. 13, pp. 287-301.

2.1.239 Vettor, R., Prpić-Oršić, J. and Guedes Soares, C. (2018), "Impact of wind loads on long-term fuel consumption and emissions in trans-oceanic shipping", *Brodogradnja*, Vol. 69(4), pp. 15-28.

2.1.240 Wang, Yi, Wu, W. and Guedes Soares, C. (2018), "Experimental and numerical studies of the wave-induced responses of a River-to-Sea ship", *Journal of Marine Science and Application*, Vol. 17, pp. 380-388.

2.1.241 Mohapatra, S.C. and Guedes Soares, C. (2019), "Interaction of ocean waves with floating and submerged horizontal flexible structures in three-dimensions", *Applied Ocean Research*, Vol. 83, pp. 136-154.

2.1.242 Uzunoglu, E. and Guedes Soares, C. (2019), "Yaw Motion of Floating Wind Turbine Platforms Induced by Pitch Actuator Fault in Storm Conditions", *Renewable Energy*, Vol. 134, pp. 1056-1070.

2.1.243 Tadros, M., Ventura, M. and Guedes Soares, C. (2019), "Optimization procedure to minimize fuel consumption of a four-stroke marine turbocharged diesel engine", *Energy*, Vol. 168, pp. 897-908.

2.1.244 Rodrigues, J.M. and Guedes Soares, C. (2019), "Ship vertical loads from using an adaptive mesh pressure integration technique for Froude-Krylov forces calculation", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 141, 011101.

2.1.245 Rezanejad, K., Gadelho, J.F.M. and Guedes Soares, C. (2019), "Hydrodynamic analysis of an Oscillating Water Column Wave Energy Converter in the stepped bottom condition using CFD", *Renewable Energy*, Vol. 135, pp. 1241-1259.

2.1.246 Uzunoglu, E. and Guedes Soares, C. (2019), "A system for the hydrodynamic design of tension leg platforms of floating wind turbines", *Ocean Engineering*, Vol. 171, pp. 78-92.

2.1.247 Rezanejad, K., Souto-Iglesias, A. and Guedes Soares, C. (2019), "Experimental investigation on the hydrodynamic performance of an L-shaped duct oscillating water column wave energy converter", *Ocean Engineering*, Vol. 173, pp. 388-398.

2.1.248 Xu, H.T., Hassani, V. and Guedes Soares, C. (2019), "Uncertainty analysis of the hydrodynamic coefficients estimation of a nonlinear manoeuvring model based on planar motion mechanism tests", *Ocean Engineering*, Vol. 173, pp. 450-459.

2.1.249 Abbasnia, A. and Guedes Soares, C. (2019), "Fully nonlinear and linear ship waves modelling using the potential numerical towing tank and NURBS", *Journal of Engineering Analysis with Boundary Elements*, Vol. 103, pp. 137-144.

2.1.250 Mohapatra, S.C., Gadelho, J.F.M. and Guedes Soares, C. (2019), "Effect of Interfacial Tension on Internal Waves Based on Boussinesq Equations in Two-Layer Fluids", *Journal of Coastal Research*, Vol. 35(2), pp. 445-462.

2.1.251 Berenjkoob, M.N., Ghiasi, M. and Guedes Soares, C. (2019), "Performance of two types of mooring systems in the heave motion of a two-body floating wave energy converter", *Journal of Marine Science and Application*, Vol. 18, pp. 38-47.

2.1.252 Wang, Zi., Zou, Z.J. and Guedes Soares, C. (2019), "Identification of ship manoeuvring motion based on nu-support vector machine", *Ocean Engineering*, Vol. 183, pp. 270-281.

2.1.253 Hinostroza, M.A., Xu, H.T. and Guedes Soares, C. (2019), "Cooperative operation of autonomous surface vehicles for maintaining formation in complex marine environment", *Ocean Engineering*, Vol. 183, pp. 132-154.

2.1.254 Islam, H. and Guedes Soares, C. (2019), "Effect of trim on container ship resistance at different ship speeds and drafts", *Ocean Engineering*, Vol. 183, pp. 106-115.

2.1.255 Xu, S., Wang, S. and Guedes Soares, C. (2019), "Review of mooring design for floating wave energy converters", *Renewable and Sustainable Energy Reviews*, Vol. 111, pp. 595-621.

2.1.256 Sutulo, S. and Guedes Soares, C. (2019), "On the application of empiric methods for prediction of ship manoeuvring properties and associated uncertainties", *Ocean Engineering*, Vol. 186, 106111.

2.1.257 Berenjkoob, M.N., Ghiasi, M. and Guedes Soares, C. (2019), "On the improved design of the buoy geometry on a two-body wave energy converter model", *Journal of Renewable and Sustainable Energy*, Vol. 11, 054702.

2.1.258 Xu, S., Ji, C.Y. and Guedes Soares, C. (2019), "Estimation of short-term extreme responses of a semi-submersible moored by two hybrid mooring systems", *Ocean Engineering*, Vol. 190, 106388.

2.1.259 Islam, H., Rahaman, M., Rafiqul Islam, M. and Akimoto, H. (2019), "Application of a RaNS and PF-Based Method to Study the Resistance and Motion of a Bulk Carrier", *Journal of Marine Science and Application*, Vol. 18, pp. 271-281.

2.1.260 Praveen, K.M., Karmakar, D. and Guedes Soares, C. (2019), "Influence of Support Conditions on the Hydroelastic Behaviour of Floating Thick Elastic Plate", *Journal of Marine Science and Application*, Vol. 18, pp. 295-313.

2.1.261 Xu, H.T. and Guedes Soares, C. (2019), "Hydrodynamic coefficient estimation for ship manoeuvring in a shallow water using an optimal truncated LS-SVM", *Ocean Engineering*, Vol. 191, 106488.

2.1.262 Islam, H., Mohapatra, S.C., Gadelho, J.F.M. and Guedes Soares, C. (2019), "OpenFOAM analysis of the wave radiation by a box-type floating structure", *Ocean Engineering*, Vol. 193, 106532.

2.1.263 Islam, H. and Guedes Soares, C. (2019), "Uncertainty analysis in ship resistance prediction using OpenFOAM", *Ocean Engineering*, Vol. 191, 105805.

2.1.264 Xu, H.T., Rong, H. and Guedes Soares, C. (2019), "Use of AIS data for guidance and control of path-following autonomous vessels", *Ocean Engineering*, Vol. 194, 106635.

2.1.265 Santos, J.A., Pinheiro, L.V., Abdelwahab, H.S., Fortes, C.J.E.M., Pedro, F.G.L., Capitão, R.P., Hinostroza, M.A. and Guedes Soares, C. (2019), "Physical modelling of motions and forces on a moored ship at the Leixões port", *Defect and Diffusion Forum*, Vol. 396, pp. 60-69.

2.1.265a Xu, H.T., Hinostroza, M.A., Hassani, V. and Guedes Soares, C. (2019), "Real-time parameter estimation of nonlinear vessel steering model using support vector machine", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 141(6), 061606.

2.1.266 Ren.H.L., Xu, C., Zhou, XQ., Sutulo, S., Guedes Soares, C. and Li, C.F. (2020), "Analysis of numerical errors of the Hess Smith Panel Method with asymmetric meshes", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 142, 021901.

2.1.267 Xu, S. and Guedes Soares, C. (2020), "Experimental investigation on short-term fatigue damage of slack and hybrid mooring for wave energy converters", *Ocean Engineering*, Vol. 195, 106618.

2.1.268 Guo, Y.C., Mohapatra, S.C. and Guedes Soares, C. (2020), "Wave energy dissipation of a submerged horizontal flexible porous membrane under oblique wave interaction", *Applied Ocean Research*, Vol. 94, 101948.

2.1.269 Vijay, K.G., Karmakar, D. and Guedes Soares, C. (2020), "Long-term response analysis of TLP-type offshore floating wind turbine", *ISH Journal of Hydraulic Engineering*, Vol. 26(1), pp. 31-43.

2.1.270 Xu, H.T. and Guedes Soares, C. (2020), "Manoeuvring Modelling of a Containership in Shallow Water based on Optimal Truncated Nonlinear Kernel-based Least Square Support Vector Machine and Quantum-Inspired Evolutionary Algorithm", *Ocean Engineering*, Vol. 195, 106676.

2.1.271 Wang, Xin and Guedes Soares, C. (2020), "Direct Adaptive Neural Network Control for Ship Manoeuvring Modelling Group Model based Uncertain Nonlinear Systems in Non-affine Pure-feedback Form", *IEEE Access*, Vol. 8, pp. 3272-3284.

2.1.272 Weng, YP., Wang, Nn. and Guedes Soares, C. (2020), "Data-driven sideslip observer-based adaptive sliding-mode path-following control of underactuated marine vessels", *Ocean Engineering*, Vol. 197, 106910.

2.1.273 Praveen, K.M., Karmakar, D. and Guedes Soares, C. (2020), "Wave Interaction with Floating Elastic Plate Based on the Timoshenko–Mindlin Plate Theory", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 142, 011601.

2.1.274 Raed, K., Teixeira, A.P. and Guedes Soares, C. (2020), "Uncertainty assessment for the extreme hydrodynamic responses of a wind turbine semi-submersible platform using different environmental contour approaches", *Ocean Engineering*, Vol. 195, 106719.

2.1.275 Xiang, G. and Guedes Soares, C. (2020), "Incorporating irregular nonlinear waves in simulation of dropped cylindrical objects", *Journal of Engineering for the Maritime Environment*, Vol. 234(1), pp. 272-283.

2.1.276 Xu, S., Ji, C. and Guedes Soares, C. (2020), "Experimental study on effect of side-mooring lines on dynamics of a catenary moored semi-submersible system", *Journal of Engineering for the Maritime Environment (Part M)*, Vol. 234(1), pp. 127-142.

2.1.277 Xiang, G., Wang, S. and Guedes Soares, C. (2020), "Study on the Motion of a Freely Falling Horizontal Cylinder into Water using OpenFOAM", *Ocean Engineering*, Vol. 196, 106811.

2.1.278 Wang, Zi., Guedes Soares, C. and Zou, Z.J. (2020), "Optimal design of excitation signal for identification of nonlinear ship manoeuvring model", *Ocean Engineering*, Vol. 196, pp. 106778.

2.1.279 Wang, Yi., Wu, W., Wang, S. and Guedes Soares, C. (2020), "Slam-induced loads of a three-dimensional bow with various pitch angles", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 142, 014502.

2.1.280 Xu, H.T., Hinostroza, M.A., Wang, Zi. and Guedes Soares, C. (2020), "Experimental investigation of shallow water effect on vessel steering model using system identification method", *Ocean Engineering*, Vol. 199, 106940.

2.1.281 Xu, H.T., Hassani, V. and Guedes Soares, C. (2020), "Truncated least square support vector machine for parameter estimation of a nonlinear manoeuvring model based on PMM tests", *Applied Ocean Research*, Vol. 97, 102076.

2.1.282 Guo, Y.C., Mohapatra, S.C. and Guedes Soares, C. (2020), "Review of developments in porous membranes and net-type structures for breakwaters and fish cages", *Ocean Engineering*, Vol. 200, 107027.

2.1.283 Xu, H.T., Hassani, V. and Guedes Soares, C. (2020), "Comparing generic and vectorial nonlinear manoeuvring models and parameter estimation using optimal truncated least square support vector machine", *Apllied Ocean Research*, Vol. 97, 102061.

2.1.284 Vettor, R., Szlapczynska, J., Szlapczynski, R., Tycholiz, W. and Guedes Soares, C. (2020), "Towards improving optimised ship weather routing", *Polish Maritime Research Journal*, Vol. 27, pp. 60-69.

2.1.285 Xu, S. and Guedes Soares, C. (2020), "Dynamics of an ultra-deepwater mooring line with embedded chain segment", *Marine Structures*, Vol. 72, 102747.

2.1.286 Tadros, M., Ventura, M. and Guedes Soares, C. (2020), "Data driven in-cylinder pressure diagram based optimization procedure", *Journal of Marine Science and Application*, Vol. 8, 294.

2.1.287 Moreira, L. and Guedes Soares, C. (2020), "Neural Network Model for Estimation of Hull Bending Moment and Shear Force on Ships in Waves", *Ocean Engineering*, Vol. 206, 107347.

2.1.288 Datta, R. and Guedes Soares, C. (2020), "Analysis of the hydroelastic effect on a container vessel using coupled BEM-FEM method in the time domain", *Ships & Offshore Structures*, Vol. 15(4), pp. 393-402.

2.1.289 Xu, H.T., Fossen, T.I. and Guedes Soares, C. (2020), "Uniformly semiglobally exponentially stability of vector field guidance law and autopilot for path-following", *European Journal of Control*, Vol. 53, pp. 88-97.

2.1.290 Uzunoglu, E. and Guedes Soares, C. (2020), "Hydrodynamic design of a free-float capable tension leg platform for a 10 MW wind turbine", *Ocean Engineering*, Vol. 197, 106888.

2.1.291 Garcia, S., Trueba, A., Boullosa-Falces, D., Islam, H. and Guedes Soares, C. (2020), "Predicting ship frictional resistance due to biofouling using Reynolds-averaged Navier-Stokes simulations", *Applied Ocean Research*, Vol. 101, pp. 102203.

2.1.292 Xu, S., Wang, S. and Guedes Soares, C. (2020), "Experimental investigation on hybrid mooring systems for wave energy converters", *Renewable Energy*, Vol. 158, pp. 130-153.

2.1.293 Diaz, H.M., Rodrigues, J.M. and Guedes Soares, C. (2020), "Preliminary assessment of a tidal test site on the Minho estuary", *Renewable Energy*, Vol. 158, pp. 642-655.

2.1.294 Vitali, N., Prpić-Oršić, J. and Guedes Soares, C. (2020), "Coupling voyage and weather data to estimate speed loss of container ships in realistic conditions", *Ocean Engineering*, Vol. 210, 106758.

2.1.295 Diaz, H.M. and Guedes Soares, C. (2020), "Review of the current status, technology and future trends of offshore wind farms", *Ocean Engineering*, Vol. 209, 107381.

2.1.296 Xiang, G. and Guedes Soares, C. (2020), "Improved Dynamical Modelling of Freely Falling Underwater Cylinders Based on CFD", *Ocean Engineering*, Vol. 211, 107538.

2.1.297 Wang, QJ., Dai, H-N., Wang, Q., Shukla, M.K., Zhang, W. and Guedes Soares, C. (2020), "On Connectivity of UAV-Assisted Data Acquisition for Underwater Internet of Things", *IEEE Xplore*, Vol. 7(6), pp. 5371-5385.

2.1.298 Tadros, M., Ventura, M. and Guedes Soares, C. (2020), "A nonlinear optimization tool to simulate a marine propulsion system for ship conceptual design", *Ocean Engineering*, Vol. 210, 107417.

2.1.299 Abbasnia, A. and Guedes Soares, C. (2020), "OpenMP parallelism in computations of three-dimensional potential numerical wave tank for fully nonlinear simulation of wave-body interaction using NURBS", *Engineering Analysis with Boundary Elements*, Vol. 117, pp. 321-331.

2.1.300 Kamarlouei, M., Gaspar, J.F. Calvario, M., Hallak, T.S., Mendes, M.J.G.C., Thiebaut, F. and Guedes Soares, C. (2020), "Experimental analysis of wave energy converters concentrically attached on a floating offshore platform", *Renewable Energy*, Vol. 152, pp. 1171-1185.

2.1.301 Mohapatra, S.C., Islam, H. and Guedes Soares, C. (2020), "Boussinesq Model and CFD Simulations of the Nonlinear Wave Diffraction by a Floating Vertical Cylinder", *Ocean Engineering*, Vol. 8, 575.

2.1.302 Calvário, M., Gaspar, J.F., Kamarlouei, M., Hallak, T.S. and Guedes Soares, C. (2020), "Oil-hydraulic power take-off concept for an oscillating wave surge converter", *Renewable Energy*, Vol. 159, pp. 1297-1309.

2.1.303 Praveen, K.M., Karmakar, D. and Guedes Soares, C. (2020), "Hydroelastic analysis of periodic arrays of multiple articulated floating elastic plate", *Ships and Offshore Structures*, Vol. 15(3), pp. 280-295.

2.1.304 Mohapatra, S.C. and Guedes Soares, C. (2020), "Hydroelastic Response of a Flexible Submerged Porous Plate for Wave Energy Absorption", *Journal of Marine Science and Engineering*, Vol. 8(9), 698.

2.1.305 Diaz, H.M. and Guedes Soares, C. (2020), "An integrated GIS approach for site selection of floating offshore wind farms in the Atlantic Continental European coastline", *Renewable and Sustainable Energy Reviews*, Vol. 134, 110328.

2.1.306 Wang, S. and Guedes Soares, C. (2020), "Effects of compressibility, three-dimensionality and air cavity on a free-falling wedge cylinder", *Ocean Engineering*, Vol. 217, 107589.

2.1.307 Wang, Zi, Xu, H.T., Xia, L., Zou, ZJ. and Guedes Soares, C. (2020), "Kernel-based Support Vector Regression for Nonparametric Modeling of Ship Maneuvering Motion", *Ocean Engineering*, Vol. 216, 107994.

2.1.308 Xu, S., Rezanejad, K., Gadelho, J.F.M., Wang, S. and Guedes Soares, C. (2020), "Experimental Investigation on a Dual Chamber Floating Oscillating Water Column Moored by Flexible Mooring Systems", *Ocean Engineering*, Vol. 216, 108083.

2.1.309 Guo, Y.C., Mohapatra, S.C. and Guedes Soares, C. (2020), "Composite breakwater of a submerged horizontal flexible porous membrane with a lower rubble mound", *Applied Ocean Research*, Vol. 104, 102371.

2.1.310 Xiang, G. and Guedes Soares, C. (2020), "Modelling the Motion of a Dropped Cylinder under 3D Second-Order Regular Waves and Identification of the Governing Parameters", *Ships & Offshore Structures*, Vol. 15, pp. 1084-1097.

2.1.311 Wang, Yi., Wu, W. and Guedes Soares, C. (2020), "Experimental and numerical study of the hydroelastic response of a River-Sea-Going container ship", *Journal of Marine Science and Engineering*, Vol. 8, 978.

2.1.312 Tadros, M., Ventura, M. and Guedes Soares, C. (2020), "Optimization of the performance of marine diesel engines to minimize the formation of SO_X emissions", *Journal of Marine Science and Application*, Vol. 19, pp. 473-484.

2.1.313 Sacramento, M., Almeida, C. and Moreira, M. (2020), "IFOHAM - A Generalization of the Picard-Lindeloff Iteration Method", *Differential and Difference Equations with Applications*, Vol. 333, pp. 497-516.

2.1.314 Xu, H.T. and Guedes Soares, C. (2020), "Vector field guidance law for curved path following of an underactuated autonomous ship model", *International Journal of Maritime Engineering*, Vol. 162(A3), pp. A249-A261.

2.1.315 Huang, J., Xu, C., Xin, P., Zhou, XQ., Sutulo, S. and Guedes Soares, C. (2020), "A Fast Algorithm for the Prediction of Ship-Bank Interaction in Shallow Water", *Journal of Marine Science and Engineering*, Vol. 8(11), 927.

2.1.316 Parunov, J., Corak, M., Guedes Soares, C., Jafaryeganeh, H., Kalske, S., Lee, Y.W., Liu, S., Papanikolaou, A., Prentice, D., Prpić-Oršić, J., Ruponen, P. and Vitali, N. (2020), "Benchmark study and uncertainty assessment of numerical predictions of global wave loads on damaged ships", *Ocean Engineering*, Vol. 197, 106876.

2.1.317 Ren, H.L., Xu, C., Zhou, XQ., Sutulo, S. and Guedes Soares, C. (2020), "A numerical method for calculation of ship-ship hydrodynamics interaction in shallow water accounting for sinkage and trim", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 142(5), 051201.

2.1.318 Hinostroza, M.A., Xu, H.T. and Guedes Soares, C. (2021), "Motion planning, guidance and control system for autonomous surface vessel", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 143, 041202.

2.1.319 Gaspar, J.F., Stansby, P.K., Calvário, M. and Guedes Soares, C. (2021), "Hydraulic Power Take-Off concept for the M4 Wave Energy Converter", *Applied Ocean Research*, Vol. 106, 102462.

2.1.320 Hinostroza, M.A., Xu, H.T. and Guedes Soares, C. (2021), "Experimental results of the cooperative operation of autonomous surface vehicles navigating in complex marine environment", *Ocean Engineering*, Vol. 219, 108256.

2.1.321 Moreira, L., Vettor, R. and Guedes Soares, C. (2021), "Neural network approach for predicting ship speed and fuel consumption", *Journal of Marine Science and Engineering*, Vol. 9, 119.

2.1.322 Tadros, M., Vettor, R., Ventura, M. and Guedes Soares, C. (2021), "Coupled engine-propeller selection procedure to minimize fuel consumption at a specified speed", *Journal of Marine Science and Engineering*, Vol. 9, 59.

2.1.323 Liu, ZC., Mohapatra, S.C. and Guedes Soares, C. (2021), "Finite Element Analysis of the Effect of Currents on the Dynamics of a Moored Flexible Cylindrical Net Cage", *Journal of Marine Science and Engineering*, Vol. 9, 159.

2.1.324 Jiao, JL., Huang, SX. and Guedes Soares, C. (2021), "Numerical investigation of ship motions in cross waves using CFD", *Ocean Engineering*, Vol. 223, 108711.

2.1.325 Xu, H. T.; Oliveira, P., and Guedes Soares, C. (2021), "L1 adaptive backstepping control for path-following of underactuated marine surface ships", *European Journal of Control*, Vol. 58, pp. 357-372.

2.1.326 Gadelho, J.F.M., Rezanejad, K., Xu, S., Hinostroza, M.A. and Guedes Soares, C. (2021), "Experimental study on the motions of a Dual Chamber Floating Oscillating Water Column Device", *Renewable Energy*, Vol. 170, pp. 1257-1274.

2.1.327 Rezanejad, K. and Guedes Soares, C. (2021), "Hydrodynamic investigation of a novel concept of Oscillating Water Column type wave energy converter device", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 143, 042003.

2.1.328 Xu, S. and Guedes Soares, C. (2021), "Evaluation of spectral methods for long term fatigue damage analysis of synthetic fibre mooring ropes based on experimental data", *Ocean Engineering*, Vol. 226, 108842.

2.1.329 Uğurlu, B. and Guedes Soares, C. (2021), "Application of the Fourier-Kochin theory for the diffraction and radiation of free-surface waves about stationary floating bodies", *Ocean Engineering*, Vol. 227, 108831.

2.1.330 Jiao, JL., Ren, H.L. and Guedes Soares, C. (2021), "A review of large-scale model at-sea measurements for ship hydrodynamics and structural loads", *Ocean Engineering*, Vol. 227, 108863.

2.1.331 Mohapatra, S.C., Bernardo, T.A. and Guedes Soares, C. (2021), "Dynamic wave induced loads on a moored flexible cylindrical net cage with analytical and numerical model simulations", *Applied Ocean Research*, Vol. 110, 102591.

2.1.332 Zhou, LL., Abdelwahab, H.S. and Guedes Soares, C. (2021), "Experimental and CFD investigation of the effects of a high-speed passing ship on a moored container ship", *Ocean Engineering*, Vol. 228, 108914.

2.1.333 Degrieck, A., Uytersprot, B., Sutulo, S., Guedes Soares, C., Van Hoydonck, W., Vantorre, M. and Lataire, E. (2021), "Hydrodynamic ship-ship and ship-bank interaction: a comparative numerical study", *Ocean Engineering*, Vol. 230, 108970.

2.1.334 Xu, S. and Guedes Soares, C. (2021), "Bayesian analysis of short term extreme mooring tension for a point absorber with mixture of Gamma and Generalised Pareto Distributions", *Applied Ocean Research*, Vol. 110, 102556.

2.1.335 Islam, H., Guedes Soares, C., Liu, J. and Wang, X. (2021), "Propulsion power prediction for an inland container vessel in open and restricted channel from model and full-scale simulations", *Ocean Engineering*, Vol. 229, 108621.

2.1.336 Wang, S., Xiang, G. and Guedes Soares, C. (2021), "Assessment of three-dimensional effects on slamming load predictions using OpenFoam", *Applied Ocean Research*, Vol. 112, 102646.

2.1.337 Xu, S., Wang, S. and Guedes Soares, C. (2021), "Experimental study of the influence of the rope material on mooring fatigue damage and point absorber response", *Ocean Engineering*, Vol. 232, 108667.

2.1.338 Mohapatra, S.C. and Guedes Soares, C. (2021), "Hydroelastic behaviour of a submerged horizontal flexible porous structure in three-dimensions", *Journal of Fluids and Structures*, Vol. 104, 103319.

2.1.339 Rezanejad, K., Gadelho, J.F.M., Xu, S. and Guedes Soares, C. (2021), "Experimental Investigation on the Hydrodynamic Performance of a new Type Floating Oscillating Water Column Device with Dual Chambers", *Ocean Engineering*, Vol. 234, 109307.

2.1.340 Gaspar, J.F., Kamarlouei, M., Thiebaut, F. and Guedes Soares, C. (2021), "Compensation of a hybrid platform dynamics using wave energy converters in different sea state conditions", *Renewable Energy*, Vol. 177, pp. 871-883.

2.1.341 Xu, S. and Guedes Soares, C. (2021), "Mixture distribution model for extreme mooring tension and mooring fatigue analysis due to snap loads", *Ocean Engineering*, Vol. 234, 109245.

2.1.342 Xu, S., Wang, S. and Guedes Soares, C. (2021), "Experimental investigation on the influence of hybrid mooring system configuration and mooring material on the hydrodynamic performance of a point absorber", *Ocean Engineering*, Vol. 233, 109178.

2.1.343 Zhang, DP., Bai, Y. and Guedes Soares, C. (2021), "Dynamic Analysis of an Array of Semi-rigid "Sea Station" Fish Cages subjected to waves", *Aquacultural Engineering*, Vol. 94. 102172.

2.1.344 Xu, H.T., Hinostroza, M.A. and Guedes Soares, C. (2021), "Modified vector field path-following control system for an underactuated autonomous surface ship model in the presence of static obstacles", *Journal of Marine Science and Engineering*, Vol. 9, 652.

2.1.345 Xu, S., Wang, S., Liu, HX., Zhang, Y., Li, L. and Guedes Soares, C. (2021), "Experimental evaluation of the dynamic stiffness of synthetic fibre mooring ropes", *Applied Ocean Research*, Vol. 112, 102709.

2.1.346 Berenjkoob, M.N., Ghiasi, M. and Guedes Soares, C. (2021), "Influence of the shape of a buoy on the efficiency of its dual-motion wave energy conversion", *Energy*, Vol. 214, 118998.

2.1.347 Depalo, F., Wang, S., Xu, S. and Guedes Soares, C. (2021), "Design and analysis of a mooring system for a wave energy converter", *Journal of Marine Science and Engineering*, Vol 9, 782.

2.1.348 Xu, S., Ji, C-Y. and Guedes Soares, C. (2021), "Short-term extreme mooring tension and uncertainty analysis by a modified ACER method with Adaptive Markov Chain Monte Carlo simulations", *Ocean Engineering*, Vol. 236, 109445.

2.1.349 Mas-Soler, J., Uzunoglu, E., Guedes Soares, C., Bulian, G. and Souto-Iglesias, A. (2021), "An experimental study on transporting a free-float capable tension leg platform for a 10 MW wind turbine in waves", *Renewable Energy*, Vol. 179, pp. 2158-2173.

2.1.350 Mohapatra, S.C. and Guedes Soares, C. (2021), "Surface gravity wave interaction with a horizontal flexible floating plate and submerged flexible porous plate", *Ocean Engineering*, Vol. 237, 109621.

2.1.351 Sutulo, S. and Guedes Soares, C. (2021), "Review on ship manoeuvrability criteria and standards", *Journal of Marine Science and Engineering*, Vol. 9, 904.

2.1.352 Jiao, JL., Huang, SX. and Guedes Soares, C. (2021), "Viscous fluid-flexible structure interaction analysis on ship springing and whipping responses in regular waves", *Journal of Fluids and Structures*, Vol. 106, 103354.

2.1.353 Jiao, JL., Ren, H.L. and Guedes Soares, C. (2021), "Vertical and horizontal bending moments on the hydroelastic response of a large-scale segmented model in a seaway", *Marine Structures*, Vol. 79, 103060.

2.1.354 Wang, S., Gadelho, J.F.M., Islam, H. and Guedes Soares, C. (2021), "CFD modelling and grid uncertainty analysis of the free-falling water entry of 2D rigid bodies", *Applied Ocean Research*, Vol. 115, 102813.

2.1.355 Wang, S., Islam, H. and Guedes Soares, C. (2021), "Uncertainty due to discretization on the ALE algorithm for predicting water slamming loads", *Marine Structures*, Vol. 80, 103086.

2.1.356 Islam, H. and Guedes Soares, C. (2021), "Assessment of uncertainty in the CFD simulation of the wave-induced loads on a vertical cylinder", *Marine Structures*, Vol. 80, 103088.

2.1.357 Mohapatra, S.C. and Guedes Soares, C. (2021), "Effect of Mooring Lines on the Hydroelastic Response of a Floating Flexible Plate using BIEM Approach", *Journal of Marine Science and Engineering*, Vol. 9, 941.

2.1.358 Abbasnia, A., Rezanejad, K. and Guedes Soares, C. (2021), "Adaptive fully nonlinear potential model for the free surface under compressible air pressure of oscillating water column devices", *Engineering Analysis with Boundary Elements*, Vol. 133, pp. 153-164.

2.1.359 Jiao, JL., Huang, SX., Wang, S. and Guedes Soares, C. (2021), "A CFD-FEA two-way coupling method for predicting ship wave loads and hydroelastic responses", *Applied Ocean Research*, Vol. 117, 102919.

2.1.360 Jiao, JL., Huang, SX., Tezdogan, T., Terziev, M. and Guedes Soares, C. (2021), "Slamming and green water loads on a ship sailing in regular waves predicted by a coupled CFD-FEA approach", *Ocean Engineering*, Vol. 241, 110107.

2.1.361 Tadros, M., Ventura, M. and Guedes Soares, C. (2021), "Design of propeller series optimizing fuel consumption and propeller efficiency", *Journal of Marine Science and Engineering*, Vol. 9, 1226.

2.1.362 Costa, A.C., Xu, H.T. and Guedes Soares, C. (2021), "Robust Parameter Estimation of an Empirical Manoeuvring Model Using Free-Running Model Test", *Journal of Maritime Science and Engineering*, Vol. 9(11), 1302.

2.1.363 Krata, P., Kniat, A., Vettor, R., Krata, H. and Guedes Soares, C. (2021), "The development of a combined method to quickly assess ship speed and fuel consumption at different powertrain load and sea conditions", *the International Journal on Marine Navigation and Safety of Sea Transportation*, Vol. 15(2), pp. 437-444.

2.1.364 Rony, J.S., Karmakar, D. and Guedes Soares, C. (2021), "Coupled dynamic analysis of spar-type floating wind turbine under different wind and wave loading", *Marine Systems & Ocean Technology*, Vol. 16(3-4), pp. 169-198.

2.1.365 Vettor, R., Bergamini, G. and Guedes Soares, C. (2021), "A comprehensive approach to account for weather uncertainties in ship route optimization", *Journal of Maritime Science and Engineering*, Vol. 9, 1434.

2.1.366 Ribeiro e Silva, S., Gomes, R.P.F., Lopes, B.S., Carrelhas, A.A.D., Gato, L.M.C., Henriques, J.C.C., Gordo, J.M. and Falcão, A.F.O. (2021), "Model testing of a floating wave energy converter with an internal U-shaped oscillating water column", *Energy Conversion and Management*, Vol. 240, 114211.

2.1.367 Mocerino, L., Guedes Soares, C., Rizzuto, E., Balsamo, F. and Quaranta, F. (2021), "Validation of a Model of Emissions for a Marine Diesel Engine with data from sea operation", *Journal of Marine Science and Application*, Vol. 20, pp. 534-545.

2.1.368 Abbasnia, A. and Guedes Soares, C. (2022), "Cartesian spatial derivatives of boundary element solutions on the exact free surface of fully nonlinear numerical wave tanks", *Engineering Analysis with Boundary Elements*, Vol. 134, 532-538.

2.1.369 Kamarlouei, M., Gaspar, J.F. and Guedes Soares, C. (2022), "Optimal design of an axisymmetric two-body wave energy converter with translational hydraulic power take-off system", *Renewable Energy*, Vol. 183, 586-600.

2.1.370 Huang, SX., Jiao, JL. and Guedes Soares, C. (2022), "Uncertainty analysis on the CFDFEA coupled simulations of ship wave loads and whipping responses", *Marine Structures*, Vol. 82, 103129.

2.1.371 Diaz, H.M. and Guedes Soares, C. (2022), "A novel multi-criteria decision-making model to evaluate floating wind farm locations", *Renewable* Energy, Vol. 185, 431-454.

2.1.372 Guo, Y.C., Mohapatra, S.C. and Guedes Soares, C. (2022), "Submerged breakwater of a flexible porous membrane with a vertical flexible porous wall over variable bottom topography", *Ocean Engineering*, Vol. 243, 109989.

2.1.373 Mohseni, M. and Guedes Soares, C. (2022), "Numerical Simulation of Wave Interaction with a Pair of Fixed Large Tandem Cylinders Subjected to Regular Non-Breaking Waves", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 144, 031901.

2.1.374 Uğurlu, B., Kharaman, I. and Guedes Soares, C. (2022), "Numerical investigation of the Fourier-Kochin theory for wave-induced response estimation of floating structures", *Ocean Engineering*, Vol. 247, 110562.

2.1.375 Islam, H. and Guedes Soares, C. (2022), "Head wave simulation of a KRISO container ship model using OpenFOAM for the assessment of sea margin", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 144, 031902.

2.1.376 Kamarlouei, M., Gaspar, J.F., Calvário, M., Hallak, T.S., Mendes, M.J.G.C., Thiebaut, F. and Guedes Soares, C. (2022), "Experimental study of wave energy converter arrays adapted to a semi-submersible wind platform", *Renewable Energy*, Vol. 188, pp. 145-163.

2.1.377 Diaz, H.M., Loughney, S., Wang, J. and Guedes Soares, C. (2022), "Comparison of multicriteria analysis techniques for decision making on floating offshore wind farms site selection", *Ocean Engineering*, Vol. 248, 110751.

2.1.378 Liu, ZC., Wang, S. and Guedes Soares, C. (2022), "Numerical Study on the Mooring Force in an Offshore Fish Farm System", *Journal of Marine Science and Engineering*, Vol. 10, 331.

2.1.379 Xu, S., Rezanejad, K., Gadelho, J.F.M. and Guedes Soares, C. (2022), "Influence of the power take-off damping of a dual chamber floating oscillating water column on the mooring fatigue damage", *Ocean Engineering*, Vol. 249, 110832.

2.1.380 Wang, S. and Guedes Soares, C. (2022), "Three-dimensional effects on slamming loads on a free-falling bow-flare cylinder into calm water", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 144(4), 044502.

2.1.381 Vettor, R. and Guedes Soares, C. (2022), "Reflecting the uncertainties of ensemble weather forecasts on the predictions of ship fuel consumption", *Ocean Engineering*, Vol. 250, 111009.

2.1.382 Xu, H.T. and Guedes Soares, C. (2022), "Convergence analysis of hydrodynamic coefficients estimation using regularization filter functions on free-running ship model tests with noise", *Ocean Engineering*, Vol. 250, 111012.

2.1.383 Parunov, J., Guedes Soares, C., Hirdaris, S., Iijima, K., Wang, XL., Brizzolara, S., Qiu, W., Mikulic, A., Wang, S. and Abdelwahab, H.S. (2022), "Benchmark study of global linear wave loads on a container ship with forward speed", *Marine Structures*, Vol. 84, 103162.

2.1.384 Mohseni, M. and Guedes Soares, C. (2022), "Numerical investigation of inline wave force on a truncated vertical cylinder with different cross-sections in regular head waves", *Ocean Engineering*, Vol. 251, 111063.

2.1.385 Depalo, F., Wang, S., Xu, S., Guedes Soares, C., Yang, S-H. and Ringsberg, J.W. (2022), "Effects of dynamic axial stiffness of elastic moorings for a wave energy converter", *Ocean Engineering*, Vol. 251, 111132.

2.1.386 Xiang, G. and Guedes Soares, C. (2022), "A CFD approach for numerical assessment of hydrodynamic coefficients of an inclined prism near the sea bottom", *Ocean Engineering*, Vol. 252, 111140.

2.1.387 Bispo, I.B.S., Mohapatra, S.C. and Guedes Soares, C. (2022), "Numerical analysis of a moored very large floating structure composed by a set of hinged plates", *Ocean Engineering*, Vol. 253, 110785.

2.1.388 Wang, S., Gonzalez-Cao, J., Islam, H., Gómez-Gesteira, M. and Guedes Soares, C. (2022), "Uncertainty estimation of mesh-free and mesh-based simulations of the dynamics of floaters", *Ocean Engineering*, Vol. 256, 111386.

2.1.389 Mohapatra, S.C. and Guedes Soares, C. (2022), "3D hydroelastic modelling of fluid-structure interactions of porous flexible structures", *Journal of Fluids and Structures*, Vol. 112, 103588.

2.1.390 Hallak, T.S., Teixeira, A.P. and Guedes Soares, C. (2022), "Epistemic uncertainties on the estimation of minimum air gap for semi-submersible platforms", *Marine Structures*, Vol. 85, 103244.

2.1.391 Guo, Y.C., Mohapatra, S.C. and Guedes Soares, C. (2022), "Experimental study on the performance of an array of vertical flexible porous membrane type breakwater under regular waves", *Ocean Engineering*, Vol. 264, 112328.

2.1.392 Islam, H., Sutulo, S. and Guedes Soares, C. (2022), "Aerodynamic loads prediction on a patrol vessel using Computational Fluid Dynamics", *Journal of Marine Science and Engineering*, Vol. 10, 935.

2.1.393 Kamarlouei, M., Hallak, T.S., Gaspar, J.F. and Guedes Soares, C. (2022), "Evaluation of the stiffness mechanism on the performance of a hinged wave energy converter", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 144, 052002.

2.1.394 Tadros, M., Vettor, R., Ventura, M. and Guedes Soares, C. (2022), "Effect of propeller cup on the reduction of fuel consumption in realistic weather conditions", *Journal of Marine Science and Engineering*, Vol. 10, 1039.

2.1.395 Xu, S., Ji, C-Y. and Guedes Soares, C. (2022), "A semiparametric Bayesian method with birth-death Markov Chain Monte Carlo algorithm for extreme mooring tension analysis", *Ocean Engineering*, Vol. 260, 111765.

2.1.396 Gadelho, J.F.M. and Guedes Soares, C. (2022), "CFD study of a Dual Chamber Floating Oscillating Water Column Device", *Ocean Engineering*, Vol. 261, 111817.

2.1.397 Mohapatra, S.C. and Guedes Soares, C. (2022), "Hydroelastic response to oblique wave incidence on the floating plate with a submerged perforated base", *Journal of Marine Science and Engineering*, Vol. 10, 1205.

2.1.398 Mohapatra, S.C., Islam, H., Hallak, T.S. and Guedes Soares, C. (2022), "Solitary wave interaction with a floating pontoon based on Boussinesq model and CFD based simulations", *Journal of Marine Science and Engineering*, Vol. 10, 1251.

2.1.399 Szlapczynska, J., Vettor, R., Szlapczynski, R., Lacki, M., Zyczkowski, M., Hinostroza, M.A., Santos, F.J.P., Tycholiz, W. and Guedes Soares, C. (2022), "Weather routing system architecture using onboard data collection and route optimization", *Polish Maritime Research*, Vol. 29(2), pp. 87-95.

2.1.400 Wang, S., Rolland, Y. and Guedes Soares, C. (2022), "Analytical and numerical analysis of slamming induced vibrations on composite plates", *Ocean Engineering*, Vol. 258, 111643.

2.1.401 Varela, J.M. and Guedes Soares, C. (2022), "Study on the feasibility of using low-cost techniques and tools to manufacture a scale model of a ship for manoeuvring experiments", *Journal of Ship Production and Design*, Vol. 38(2), pp. 61-75.

2.1.402 Diaz, H.M. and Guedes Soares, C. (2022), "Multicriteria decision approach to the design of floating wind farm export cables", *Energies*, Vol. 15, 6593.

2.1.403 Liu, ZC. and Guedes Soares, C. (2022), "Experimental study of the behaviour of a circular gravity cage in linear waves", *Aquaculture Engineering*, Vol. 99, 102291.

2.1.404 Filgueira-Vizoso, A., Castro-Santos, L., Iglesias, D.C., Puime-Guillén, F., Lamas-Galdo, I., Garcia-Diez, A.I., Uzunoglu, E., Diaz, H.M. and Guedes Soares, C. (2022), "The technical and economic feasibility of the CENTEC floating offshore wind platform", *Journal of Marine Science and Engineering*, Vol. 10, 1344.

2.1.405 Altuzarra, J., Herrera, A., Matias, O., Urbano, J., Romero, C., Wang, S. and Guedes Soares, C. (2022), "Mooring system transport and installation logistics for a floating offshore wind farm in Lannion, France", *Journal of Marine Science and Engineering*, Vol. 10, 1354.

2.1.406 Loução, R., Duarte, G.O. and Mendes, M.J.G.C. (2022), "Aerodynamic Study of a Drag Reduction System and Its Actuation System for a Formula Student Competition Car", *Fluids*, Vol. 7, 309.

2.1.407 Parunov, J., Guedes Soares, C., Hirdaris, S. and Wang, XL. (2022), "Uncertainties in modelling the low-frequency wave-induced global loads in ships", *Marine Structures*, Vol. 86, 103307.

2.1.408 Islam, H. and Guedes Soares, C. (2022), "Estimation of Hydrodynamic Derivatives of an Appended KCS Model in Open and Restricted Waters", *Ocean Engineering*, Vol. 266(3), 112947.

2.1.409 Tadros, M., Ventura, M. and Guedes Soares, C. (2022), "Towards fuel consumption reduction based on the optimum contra-rotating propeller", *Journal of Marine Science and Engineering*, Vol. 10, 1657.

2.1.410 Costa, L.M.F., Carreira, F. and Mendes, M.J.G.C. (2022), "Automatic Control System for an Oil-Hydraulic Actuator of a Scissor Lift", *Global Journal of Engineering Sciences*, Vol. 10(3), pp. 1-26.

2.1.411 Abdelwahab, H.S. and Guedes Soares, C. (2022), "Experimental uncertainty of a physical model of a tanker moored to a terminal in a port", *Marine Structures*, Vol. 87, 103331.

2.1.412 Hallak, T.S., Guedes Soares, C., Sainz, O., Hernandez, S. and Arevalo, A. (2022), "Hydrodynamic analysis of the WIND-Bos spar floating offshore wind turbine", *Journal of Marine Science and Engineering*, Vol. 10, 1824.

2.1.413 Tadros, M., Ventura, M. and Guedes Soares, C. (2022), "An optimisation procedure for propeller selection for different shaft inclinations", *International Journal of Maritime Engineering*, Vol. 164(Part A3), pp. A-295 - A315.

2.1.414 Hmedi, M., Uzunoglu, E., Medina-Manuel, A., Mas-Soler, J., Vittori, F., Pires, O., Azcona, J., Souto-Iglesias, A. and Guedes Soares, C. (2022), "Experimental analysis of CENTEC-TLP self-stable platform with a 10 MW turbine", *Journal of Maritime Science and Engineering*, Vol. 10, 1910.

2.1.415 Tadros, M., Vettor, R., Ventura, M. and Guedes Soares, C. (2022), "Assessment of ship fuel consumption for different hull roughness in realistic weather conditions", *Journal of Marine Science and Engineering*, Vol. 10, 1891.

2.1.416 Kharkeshi, B.A., Shafaghat, R., Jahanian, O., Alamian, R. and Rezanejad, K. (2022), "Experimental study on the performance of an oscillating water column by considering the interaction effects of optimal installation depth and dimensionless hydrodynamic coefficients for the Caspian Sea waves characteristics", *Ocean Engineering*, Vol. 256, 111513.

2.1.417 Abbasnia, A., Karimirad, M., Friel, D. and Whittaker, T. (2022), "Fully nonlinear dynamics of floating solar platform with twin hull by tubular floaters in ocean waves", *Ocean Engineering*, Vol. 257, 111320.

2.1.418 Chen, ZW., Jiao, JL., Wang, Q. and Wang, S. (2022), "CFD-FEM simulation of slamming loads on wedge structure with stiffeners considering hydroelasticity effects", *Journal of Marine Science and Engineering*, Vol. 10, 1591.

2.1.419 Diaz, H.M., Rodrigues, J.M. and Guedes Soares, C. (2022), "New wave energy converter design inspired by the Nenuphar plant", *Journal of Marine Science and Engineering*, Vol. 10, 1612.

2.2 Papers in Books

2.2.1 Guedes Soares, C. and Moan, T. (1985), "Uncertainty Analysis and Code Calibration of the Primary Load Effects in Ship Structures", *Structural Safety and Reliability (ICOSSAR)*, Konishi, I, Ang, A.H-S. and Shinozuka, M.S. (Eds), New York, Vol. III, pp. 501-512.

2.2.2 Guedes Soares, C. and Viana, P.C. (1988), "Sensitivity of the Response of Marine Structures to Wave Climatology", *Computer Modelling in Ocean Engineering*, Schreffler, B. A. and Zienkiewicz, O. C. (Eds), A.A. Balkema Pub., Rotterdam, pp. 487-492.

2.2.3 Guedes Soares, C. and Trovão, M.F.S. (1991), "Influence of Wave Climate Modelling on the Long Term Prediction of Wave Induced Responses of Ship Structures", *Dynamics of Marine Vehicles and Structures in Waves*, Price, W.G., Temarel, P. and Keane, A.J. (Eds), Elsevier Science Publishers, Amsterdam, pp. 1-10.

2.2.4 Guedes Soares, C., Trovão, M. and Fonseca, N. (1992), "Seakeeping in Portuguese Coastal Seas", *Exploring the Portuguese Exclusive Economic Zone*, Naval Architecture and Marine Engineering in Portugal (in Portuguese), Vol. IX, Guedes Soares, C. (Ed.), Lisbon, pp. 15.1-15.26.

2.2.5 Fonseca, N. and Guedes Soares, C. (1994), "Time Domain Analysis of Vertical Ship Motions", *Marine Offshore and Ice Technology*, Murthy, T.K.S., Wilson, P.A. and Wadhams, P. (Eds.), Computational Mechanics Publications, Southampton, pp. 224-243.

2.2.6 Fonseca, N., Tamborski, L. and Guedes Soares, C. (1995), "Time Domain Simulation of Non-Linear Motions of Two Dimensional Floating Bodies", *Marine Technology and Transportation*, Graczyk T., Jastrzebski, T., Brebbia, C.A. and Burns, R. (Eds.), Computational Mechanics Publications, Southampton, pp. 131-138.

2.2.7 Fonseca, N. and Guedes Soares, C. (1997), "Motions and Loads Induced on Ships by Large Amplitude Waves", *Safety, Quality and Environment in the Marine Industries* (in Portuguese), Guedes Soares, C. and Mira Monerris, A. (Eds.), Lisbon, pp. 24.1-24.20.

2.2.8 Fonseca, N. and Guedes Soares, C. (1998), "Time Domain Analysis of Large Amplitude Responses of Ships in Waves", *Practical Design of Ships and Mobile Units*, Oosterveld, M.W.C. and Tan, S.G. (Eds.), Elsevier Science, The Hague, pp. 495-501.

2.2.9 Degré, T. and Guedes Soares, C. (1998), "Ship's Movement Prediction in the Maritime Traffic Image Advanced System (MATIAS)", *Maritime Engineering and Ports*, Sciutto, G. and Brebbia, C.A. (Eds.), Computational Mechanics Publications, Southampton, pp. 207-216.

2.2.10 Alves Francisco, R. and Guedes Soares, C. (2000), "Identification and Simulation of the Ship Manoeuvering Characteristics", *The Sea and the Challenges of the Future (in Portuguese)*, Guedes Soares, C. and Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 185-209.

2.2.11 Baltazar, J. and Guedes Soares, C. (2000), "Experimental Study of the Rolling of a Bulk Carrier", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. and Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 127-142.

2.2.12 Fonseca, N. and Guedes Soares, C. (2000), "Viscous Effects on the Vertical Motions of Ships in Waves", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. and Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 59-84.

2.2.13 Moreira, L., Alves Francisco, R. and Guedes Soares, C. (2000), "Simulation of the Dynamic Behaviour of a Ship Propulsion System", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. and Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 167-184.

2.2.14 Ribeiro e Silva, S., Santos, T., Fonseca, N. and Guedes Soares, C. (2000), "Time Domain Simulation of Parametrically Excited Roll in Head Seas", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. and J. Beirão Reis (Eds.), Edições Salamandra, Lda, Lisbon, pp. 143-165.

2.2.15 Santos, P. and Guedes Soares, C. (2000), "Prediction of the Duration of Ship's Voyages", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. and Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 107-126.

2.2.16 Santos, T. and Guedes Soares, C. (2000), "Transient Asymmetric Flooding of Ro-Ro Ships", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. and Beirão Reis, J. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 85-105.

2.2.17 Silva, F.M., Sutulo, S. and Guedes Soares, C. (2000), "A Ship Manoeuvring Simulation System", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. and Beirão Reis, J. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 231-246.

2.2.18 Sutulo, S., Moreira, L. and Guedes Soares, C. (2000), "Study of Wind and Current Action in Full-Scale Manoeuvering Trials", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. and Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 211-230.

2.2.19 Santos, H.B., Sutulo, S. and Guedes Soares, C. (2002), "Planning and Analysis of Manoeuvring Trials in a Tank with Captive Models", *The Sea, Source of Sustainable Development* (in Portuguese), Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M.B. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 271-290.

2.2.20 Guedes Soares, C., Sutulo, S., Francisco, R.A., Moreira, L. and Laranjinha, M. (2002), "Manoeuvring Trials in Patrol Boats and Corvettes", *The Sea, Source of Sustainable Development* (in Portuguese), Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M.B. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 251-270.

2.2.21 Guedes Soares, C., Santos, F.M., Pascoal, R. and Costa, M. (2002), "Seakeeping Trials in Patrol Boats and Corvettes", *The Sea, Source of Sustainable Development* (in Portuguese), Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M.B. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 209-228.

2.2.22 Ribeiro e Silva, S., Rodrigues, B., Pascoal, R. and Guedes Soares, C. (2002), "Sea Trials of Forced Roll of *Vasco da Gama* Frigattes", *The Sea, Source of Sustainable Development* (in Portuguese), Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M.B. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 229-249.

2.2.23 Fonseca, N. and Guedes Soares, C. (2002), "Analysis of the Behaviour of a Purse Seiner in Waves", *The Sea, Source of Sustainable Development* (in Portuguese), Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M.B. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 129-152.

2.2.24 Bettencourt, J., Fonseca, N. and Guedes Soares, C. (2004), "Speed prediction program for sailing vessel", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda., Lisboa, pp. 545-564.

2.2.25 Castelo Branco, B., Moreira, L. and Guedes Soares, C. (2004), "Performance simulation of a mono-cylindrical 4-stroke diesel engine", *Maritime Activities and Engineering (in Portuguese)*, Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda., Lisbon, pp. 381-394.

2.2.26 Fonseca, N. and Guedes Soares, C. (2004), "Seakeeping analysis of a containership to operate between the Portuguese mainland and the islands", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda., Lisbon, pp. 603-618.

2.2.27 Pascoal, R., Machado Santos, F., Oliveira, A. and Guedes Soares, C. (2004), "Vibration measurements onboard a fishing vessel in composite materials", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda., Lisbon, pp. 341-356.

2.2.28 Ribeiro e Silva, S, Pascoal, R., Fonseca, N. and Guedes Soares, C. (2004), "Dynamic behaviour tests at sea of frigates of the "Vasco da Gama" class", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda., Lisbon, pp. 583-601.

2.2.29 Santos, F.M. and Guedes Soares, C. (2004), "Analysis of vibration mode shapes of a patrol boat in composite materials", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda, Lisbon, pp. 299-314.

2.2.30 Triunfante, P., Fonseca, N. and Guedes Soares, C. (2004), "Comparison between experimental and numerical data of Seakeeping of a Catamaran", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda., Lisbon, pp. 565-582.

2.2.31 Fonseca, N., Guedes Soares, C. and Marón, A. (2005), "Experimental and numerical hydrodynamic coefficients of a containership in large amplitude heaving and pitching", *Maritime Transportation and*

Exploitation of Ocean and Coastal Resources, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Traylor & Francis, London, UK, Vol. 1, pp. 147-156.

2.2.32 Moreira, L. and Guedes Soares, C. (2005), "Analysis of Recursive Neural Networks Performance Trained with Noisy Manoeuvring Data", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis, London, UK, Vol. 1, pp. 733-744.

2.2.33 Moreira, L. and Guedes Soares, C. (2005), "Design of a Robust Steering Auto-Pilot for Ships", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis, London, UK, Vol. 1, pp. 745-754.

2.2.34 Pascoal, R., Rodrigues, B. and Guedes Soares, C. (2005), "Roll-Yaw Regulation using Stabilizing Fins and Rudder in a Disturbance Observer based Compensator Scheme", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis, London, UK, Vol. 1, pp. 763-770.

2.2.35 Ribeiro e Silva, S., Fonseca, N., Pascoal, R. and Guedes Soares, C. (2005), "Motion Predictions and Sea Trials of Roll Stabilised Frigate", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis, London, UK, Vol. 1, pp. 255-263.

2.2.36 Sutulo, S. and Guedes Soares, C. (2005), "An Object-Oriented Manoeuvering Simulation Code for Surface Displacement Ships", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis, London, UK, Vol. 1, pp. 287-294.

2.2.37 Fonseca, N., Santos, T.A. and Castro, F. (2005), "Study of the Intact Stability of a Portuguese Nau from the Early XVII Century", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis, London, UK, Vol. 1, pp. 841-850.

2.2.38 Sutulo, S., Rodrigues, J.M. and Guedes Soares, C. (2006), "Numerical study of the hydrodynamic characteristics of ship sections in shallow water", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 533-550.

2.2.39 Rodrigues, J.M., Sutulo, S. and Guedes Soares, C. (2006), "Estimation of inertia hydrodynamic forces on ships in the presence of obstacles by using a 3D panel method", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 661-676.

2.2.40 Ahmed, Y., Ciortan, C. and Guedes Soares, C. (2006), "Assessment of hull resistance through the computational fluid dynamics", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 605-616.

2.2.41 Alvarez, A., Santos, T.A. and Guedes Soares, C. (2006), "Experimental tests to determine the hydraulic coefficients in flooding", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. XIV, pp. 569-584.

2.2.42 Vacas, T., Fonseca, N. and Castro, F. (2006), "Analysis of the nautical characteristics of Medieval Latin vessel", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 585-604.

2.2.43 Fonseca, N., Vieira de Castro, F. and Santos, T. (2006), "Identification of the nautical characteristics of a 16th Century Ship", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V. G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 617-632.

2.2.44 Ciortan, C. and Guedes Soares, C. (2006), "Simulation of the turbulent flow around the sails with imposed geometry", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 633-644.

2.2.45 Paço. A., Fonseca, N. and Guedes Soares, C. (2006), "Calculation of Seakeeping of a cargo ship with three alternative bows", *Innovation and Development in the Maritime Activities* (in Portuguese), C. Guedes Soares and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 677-692.

2.2.46 Bessa Pacheco, M. e Guedes Soares, C. (2006), "A GIS System for ship routing based on navigation performance factors", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 693-702.

2.2.47 Fonseca, N., Ventura de Sousa, J., Duarte, F., Farias, T. and Gonçalves, G. (2006), "Electric propulsion with hydrogen fuel cells for vessels", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 815-830.

2.2.48 Santos, T.A. and Guedes Soares, C. (2006), "Simulation of the dynamic behaviour of flooded ship", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 551-568.

2.2.49 Nielsen, F.G., Andersen, M., Argyriadis, K., Butterfield, S., Fonseca, N., Kuroiwa, T., Le Boulluec, M., Liao, S.-J., Turnock, S.R. and Waegter, J. (2006), "Ocean Wind and Wave Energy Utilization", *Ship and Offshore Structures Congress* (ISSC 2006), Frieze, P.A. and Shenoi, R.A. (Eds.), 20-25 August, Southampton, UK, Vol. 2, Committee V.4, pp. 165-211.

2.2.50 Moreira, L., Pascoal, R., Santos, F. and Guedes Soares, C. (2006), "Development of control architecture for an autonomous model of a tanker", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. XIV, pp. 645-660.

2.2.51 Fonseca, N., Guedes Soares, C. and Pascoal, R. (2007), "Effect of Ship Length on the Vertical Bending Moments Induced by Abnormal Waves", *Advancements in Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 23-31.

2.2.52 Santos, T.A. and Guedes Soares, C. (2007), "Time Domain Simulation of Ship Global Loads due to Progressive Flooding", *Advancements in Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp.79-88.

2.2.53 Bessa Pacheco, M. and Guedes Soares, C. (2007), "Ship Weather Routing Based on Seakeeping Performance", *Advancements in Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 71-78.

2.2.54 Lopes, P., Ciortan, C. and Guedes Soares, C. (2008), "Computational study on the influence of the camber of a main sail in upwind condition", *Maritime Industry, Ocean Engineering and Coastal Resources*, Guedes Soares, C. and Kolev, P. (Eds.), Taylor & Francis Group, London, UK, pp. 1017-1022.

2.2.55 Ciortan, C. and Guedes Soares, C. (2008), "Free Surface and Air Flow Simulation of a 30-Foot Yacht", *Maritime Industry, Ocean Engineering and Coastal Resources*, Guedes Soares, C. and Kolev, P. (Editors), Taylor & Francis Group, London, UK, pp. 989-996.

2.2.56 Pereira, A., Fonseca, N. and Farias, T. (2008), "Application of a dynamic model to simulate the system to generate and store electric energy of the HIDROCAT", *The Portuguese Maritime Sector* (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal.

2.2.57 Carvalho, C., Fonseca, N. and Vieira de Castro, F. (2008), "Notes on the shipbuilding technology of the XVI century Portuguese Shipyards", *The Portuguese Maritime Sector* (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal.

2.2.58 Pessoa, J., Fonseca, N. and Guedes Soares, C. (2008), "Hydrodynamic analysis of simple geometries for a wave energy converter of the "Point Absorber" Type", *The Portuguese Maritime Sector* (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), 2008, Edições Salamandra, Lda., Lisbon, Portugal.

2.2.59 Moreira, L., and Guedes Soares, C. (2008), "Ship manoeuvrability tests with autonomous ship models", *The Portuguese Maritime Sector* (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal.

2.2.60 Fonseca, N., Pascoal, R., Morais, T. and Dias, R. (2008), "Design of hybrid moorings for a wave energy converter MO1V1", *The Portuguese Maritime Sector* (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal.

2.2.61 Varela, J.M., Sutulo, S. and Guedes Soares, C. (2008), "Interactive manoeuvrability simulator for catamarans operating on the Tagus", *The Portuguese Maritime Sector* (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal.

2.2.62 Sutulo, S., Pascoal, R. and Guedes Soares, C. (2008), "Instrumentation and data acquisition system for experiments and observations of ship manoeuvrability", *The Portuguese Maritime Sector* (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal.

2.2.63 Ribeiro e Silva, S., Paço, A. and Guedes Soares, C. (2008), "Study of the conditions of parametric resonance occurrence in a containership", *The Portuguese Maritime Sector* (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), 2008, Edições Salamandra, Lda. Lisbon, Portugal.

2.2.64 Vacas, T., Fonseca, N., Santos, T. and Vieira de Castro, F. (2008), "A "Dezassete Rumos e Meio de Quilha" ship of the first Naval Architecture book", *The Portuguese Maritime Sector* (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal

2.2.65 Taveira Pinto, F., Veloso Gomes, F., Rosa Santos, P., Guedes Soares, C., Fonseca, N., Paço, A., Alfredo Santos, J., Paulo Moreira, A., Costa, P., Malheiros, P. and Brógueira Dias, E. (2008), "Study of the seakeeping of tankers moored inside a Port", *The Portuguese Maritime Sector* (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal.

2.2.65a Rodrigues, J.M. and Guedes Soares, C., (2008), "Interactive Simulator for Ship Docking in a Tridimentional Environment", *The Portuguese Maritime Sector* (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, pp. 731-741.

2.2.66 Figari, M. and Guedes Soares, C. (2009), "Fuel consumption and exhaust emissions reduction by dynamic propeller pitch control", *Analysis and Design of Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 543-550.

2.2.67 Fonseca, N. and Guedes Soares, C. (2010), "Global Structural Loads Induced by Extreme Waves on Ships", *Advanced Ship Design for Pollution Prevention – Modelling of the Environmental Loads*, Guedes Soares, C. and Parunov, J. (Eds.), Taylor & Francis Group, London, UK, pp. 3-15.

2.2.68 Turk, A., Prpić-Oršić, J., Ribeiro e Silva, S. and Guedes Soares, C. (2010), "Methods for Estimating Parametric Rolling", *Advanced Ship Design for Pollution Prevention – Modelling of the Environmental Loads*, Guedes Soares, C. and Parunov, J. (Eds.), Taylor & Francis Group, London, UK, pp. 43-54.

2.2.69 Kolacio, I., Guedes Soares, C. and Prpić-Oršić, J. (2010), "Effect of water depth on ship dynamic behaviour in waves", *Advanced Ship Design for Pollution Prevention – Modelling of the Environmental Loads*, Guedes Soares, C. and Parunov, J. (Eds.), Taylor & Francis Group, London, UK, pp. 55-63.

2.2.70 Perera, L.P., Carvalho, J.P. and Guedes Soares, C. (2010), "Autonomous Guidance and Navigation based on the COLREGs Rules and Regulations of Collision Avoidance", *Advanced Ship Design for Pollution Prevention – Collision and Grounding as Criteria in Design of Ship Structures*, Guedes Soares, C. and Parunov, J. (Eds.), Taylor & Francis Group, London, UK, pp. 191-203.

2.2.71 Luo, H.B., Wang, S. and Guedes Soares, C., (2011), "Numerical prediction of slamming loads on rigid wedge for water entry problem by Explicit Finite Element method", *Advances in Marine Structures*, C. Guedes Soares and W. Fricke, (Eds.), Taylor & Francis Group, London, UK, pp. 41-48.

2.2.72 Fonseca, N. and Guedes Soares, C. (2011), "Vertical Bending Moments on a Turret Moored FPSO Platform Induced by Extreme Waves", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, pp. 431-444.

2.2.73 Karmakar, D., Bhattacharjee, J. and Sahoo, T. (2011), "Contemporary approaches in the hydroelastic analysis of floating and submerged structures", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, pp. 461-478.

2.2.74 Varela, J.M., Cacho, A.J. and Guedes Soares, C. (2011), "Virtual environments for simulation and study of maritime scenarios", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, pp. 719-740.

2.2.75 Moreira, L. and Guedes Soares, C. (2011), "Guidance and Control of Autonomous Vehicles", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, pp. 503-520.

2.2.76 Ribeiro e Silva, S. and Guedes Soares, C. (2011), "Development of a methodology for parametric rolling prediction", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, pp. 601-620.

2.2.77 Sen, D., Datta, R. and Singh, S.P. (2011), "Modelling wave induced ship motions and loads", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, pp. 621-638.

2.2.78 Sutulo, S. and Guedes Soares, C. (2011), "Mathematical models for simulation of manoeuvring performance of ships", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, pp. 661-698.

2.2.79 Luo, HB. and Guedes Soares, C. (2012), "Review of model tests techniques of local slamming on ships", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 189-194.

2.2.80 Zhou, X., Sutulo, S. and Guedes Soares, C. (2012), "Ship Hydrodynamic Interaction Forces in Restricted Waters", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 241-249.

2.2.81 Perera, L.P., Rodrigues, J.M., Pascoal, R. and Guedes Soares, C. (2012), "Development of an onboard decision support system for ship navigation under rough weather conditions", *Sustainable Maritime Transportation and Exploitation of Sea Resources*, E. Rizzuto & C. Guedes Soares, (Eds.), Taylor and Francis Group, pp. 837-844.

2.2.82 Perera, L.P. and Guedes Soares, C. (2012), "Detection of potential collision situations by relative motions of vessels under parameter uncertainties", *Sustainable Maritime Transportation and Exploitation of Sea Resources*, E. Rizzuto & C. Guedes Soares, (Eds.), Taylor and Francis Group, pp. 705-713.

2.2.83 Datta, R., Rodrigues, J.M. and Guedes Soares, C. (2012), "Motion Calculations for Fishing Vessels with a time domain panel code", *Sustainable Maritime Transportation and Exploitation of Sea Resources*, E. Rizzuto & C. Guedes Soares, (Eds.), Taylor and Francis Group, pp. 205-214.

2.2.84 Turk, A., Prpiæ-Oršiæ, J., Guedes Soares, C. and Ribeiro e Silva, S. (2012), "Dynamic instabilities in following seas caused by parametric rolling of C11 class containership", *Sustainable Maritime Transportation and Exploitation of Sea Resources*, E. Rizzuto & C. Guedes Soares, (Eds.), Taylor and Francis Group, pp. 125-133.

2.2.85 Wnek, A.D. and Guedes Soares, C. (2012), "Numerical analysis of the shadow effect of an LNG floating platform on an LNG carrier under wind conditions", *Sustainable Maritime Transportation and Exploitation of Sea Resources*, E. Rizzuto & C. Guedes Soares, (Eds.), Taylor and Francis Group, pp. 117-122.

2.2.86 Bagbanci, H., Baykut, N., Oktem, A.S. and Guedes Soares, C. (2012), "Analysis of the fluid-structure interaction of a composite motor yacht", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 269-275.

2.2.87 Bagbanci, H., Karmakar, D. and Guedes Soares, C. (2012), "Effect of the Environment on the design loads on Monopile Offshore Wind Turbine", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 547-552.

2.2.88 Bagbanci, H., Karmakar, D. and Guedes Soares, C. (2012), "Review of offshore floating wind turbines concepts", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 553-562.

2.2.89 Bettencourt, J.H., Fonseca, N. and Guedes Soares, C. (2012), "Experimental study of the performance of a rigid wing sail", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 45-52.

2.2.90 Bhattacharjee, J. and Guedes Soares, C. (2012), "Reflection and transmission of gravity waves by a large floating circular elastic plate", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 571-578.

2.2.91 Cerveira, F., Fonseca, N. and Sutherland, L.S. (2012), "Considering disabled people in sailing yacht design", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 53-61.

2.2.92 Datta, R., Rodrigues, J.M. and Guedes Soares, C. (2012), "Prediction of the motions of fishing vessels using a time domain 3D panel method", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 165-172.

2.2.93 Ferrari, V., Moreira, L. and Guedes Soares, C. (2012), "Influence of sea current on manoeuvring of a surface autonomous model", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 173-180.

2.2.94 Karmakar, D. and Guedes Soares, C. (2012), "Interaction of gravity waves with moored flexible floating membrane", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 181-187.

2.2.95 Monarcha, A. and Fonseca, N. (2012), "Analysis of water depth effects on the wave power resource and the energy captured by a wave energy converter", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 595-605.

2.2.96 Monarcha, A. and Fonseca, N. (2012), "A static analytical method for the preliminary design of multiple line mooring system", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 195-203.

2.2.97 Moreira, L. and Guedes Soares, C. (2012), "Estimation of Hull Bending Moment and Shear Force from Ship Motions using Neural Networks", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 205-211.

2.2.98 Paço, A., Fonseca, N. and Guedes Soares, C. (2012), "Wave frequency dynamics of a tanker moored inside the port", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 213-221.

2.2.99 Perera, L.P., Carvalho, J.P. and Guedes Soares, C. (2012), "Intelligent Guidance in Collision Avoidance of Maritime Transportation", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 9-17.

2.2.100 Perera, L.P. and Guedes Soares, C. (2012), "A Nonlinear Control Approach for a Vessel Steering System", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 133-138.

2.2.101 Guedes Soares, C., Bhattacharjee, J., Tello, M. and Pietra, L. (2012), "Review and Classification of Wave Energy Converters", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 585-594.

2.2.102 Rajendran, S., Fonseca, N. and Guedes Soares, C. (2012), "Experiment and Time Domain Method Comparison for the Responses of a Container Ship induced by the Three Sisters abnormal waves", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 223-230.

2.2.103 Rodrigues, J.M., Perera, L.P. and Guedes Soares, C. (2012), "Decision Support System for the Safe Operation of Fishing Vessels in Waves", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 153-161.

2.2.104 Santos, T.A., Carichas, E., Fonseca, N., Pessoa, J., Duarte, F., Valente, J.A., Baptista, O., Cruz, J. and Leal, M. (2012), "Development of an Integrated System for Personnel and Equipment Transfer to Offshore Winde Turbines", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 631-645.

2.2.105 Stimac, G., Luo, HB. and Guedes Soares, C. (2012), "Comparison of numerical and experimental results of the modal analysis of a ship deck panel", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 349-352.

2.2.106 Tello, M., Bhattacharjee, J. and Guedes Soares, C. (2012), "Dynamics and hydrodynamics of a ship like Wave Energy Converters in roll", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 655-666.

2.2.107 Tello, M., Ribeiro e Silva, S. and Guedes Soares, C. (2012), "Seakeeping Analysis of Fishing Vessels in Irregular Waves", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 231-239.

2.2.108 Valente, J.A., Antunes, P., Batista, L. and Ribeiro e Silva, S. (2012), "Design development of an oil and garbage collector and boom layer vessel", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 97-106.

2.2.109 Varela, J.M. and Ventura, M. (2012), "Generation of an adaptive triangular mesh from a parametric surface", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, UK, pp. 107-111.

2.2.110 Guedes Soares, C. (2012), "Challenges in Manoeuvring and Control of Ships in Waves", *University of Rijeka Scientific Colloquium 2011/2012*, pp. 407-449.

2.2.110a Hirdaris, S., Argyriadis, K., Bai, W., Davydov, I., Derbanne, Q., Dessi, D., Ergin, A., Fonseca, N., Gu, X.K., Hermundstad, O.A., Huijsmans, R., Iijima, K., Nielsen, U.D., Papanikolaou, A., Parunov,

J., Petrie, G.L. and Yu, B.S. (2012), "Loads", *18th International Ship and Offshore Structures Congress (ISSC 2012)*, W. Fricke & R. Bronsart, (Eds.), Elsevier, pp. 79-150.

2.2.111 Corak, M., Parunov, J. and Guedes Soares, C. (2013), "Long-term prediction of combined wave and whipping bending moments of containership", *Analysis and Design of Marine Structures*, C. Guedes Soares and J. Romanoff, (Eds.), Taylor & Francis, UK, pp. 3-10.

2.2.112 Wang, S. and Guedes Soares, C. (2014), "Comparison of simplified approaches and numerical tools to predict the loads on bottom slamming of ship structures", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 157-170.

2.2.113 Wang, S. and Guedes Soares, C. (2014), "Numerical study on hydroelastic water entry of a wedge", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 199-208.

2.2.114 Varela, J.M. and Guedes Soares, C. (2014), "A High Level Architecture framework for real-time simulation of ship towing operations Virtual Environments", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 135-146.

2.2.115 Turk, A., Prpić-Oršić, J., Ribeiro e Silva, S. and Guedes Soares, C. (2014), "Experimental investigations of roll damping of the C11 containership fpr the prediction of parametric rolling in regular waves", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 127-134.

2.2.116 Rezanejad, K. and Guedes Soares, C. (2014), "Numerical study of a large floating oscillating water column device using a 2D boundary element", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 951-960.

2.2.117 Nava, V., Guedes Soares, C. and Arena, F. (2014), "On the assessment of extreme forces on a floating spar wind", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 933-942.

2.2.118 Asghari, M. and Fonseca, N. (2014), "Motion responses of a semi-submersible floating wind turbine in irregular waves", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 889-898.

2.2.119 Inok, F., Lavrov, A. and Guedes Soares, C. (2014), "Analysis of the free surface turbulent flow around a forward moving Wigley hull with OpenFOAM", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 33-40.

2.2.120 Inok, F., Lavrov, A. and Guedes Soares, C. (2014), "Analysis of complex fluid flow test cases with OpenFOAM", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 183-190.

2.2.121 Gadelho, J.F.M., Lavrov, A. and Guedes Soares, C. (2014), "Modelling the effect of obstacles on the 2D wave propagation with OpenFOAM", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 1057-1065.

2.2.122 Rezanejad, K. and Guedes Soares, C. (2015), "Hydrodynamic performance assessment of a floating oscillating water column", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1287-1296.

2.2.123 Jafaryeganeh, H., Rodrigues, J.M. and Guedes Soares, C. (2015), "Influence of mesh refinement on the motions predicted by a panel code", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1029-1038.

2.2.124 Varela, J.M. and Guedes Soares, C. (2015), "Geometric modelling of ships for real-time 3D ship simulators", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 341-352.

2.2.125 Xu, H.T. and Guedes Soares, C. (2015), "An optimized path following algorithm for a surface ship model", Guedes Soares, C. Dejhalla R. and Pavletiæ D., (Eds.), *Towards Green Marine Technology and Transport*, Taylor & Francis Group, London, UK, pp. 151-158.

2.2.126 Prpiæ-Oršiæ, J., Vettor, R., Guedes Soares, C. and Faltinsen, O.M. (2015), "Influence of ship routes on fuel consumption and CO_2 emission", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 857-864.

2.2.127 Vettor, R. and Guedes Soares, C. (2015), "Multi-objective evolutionary algorithm in ship route optimization", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 865-876.

2.2.128 Ferrari, V., Perera, L.P., Santos, F.P., Hinostroza, M.A., Sutulo, S. and Guedes Soares, C. (2015), "Initial experimental tests of a research-oriented self-running ship model", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 913-918.

2.2.129 Sutulo, S. and Guedes Soares, C. (2015), "Preliminary analysis of ship manoeuvrability criteria in wind", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 933-946.

2.2.130 Mohapatra, S.C. and Guedes Soares, C. (2015), "Comparative solutions of the coupled Boussinesq equations in shallow water", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 947-954.

2.2.131 Moreira, R.M., Chacaltana, J.T.A., Santos, J.A., Rodrigues, S.R.A., Neves, C.F. and Nascimento, M.F. (2015), "On pressure disturbance waves in channels: Solitons, jets and ripples", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 955-964.

2.2.132 Rodrigues, S.R.A., Guedes Soares, C. and Santos, J.A. (2015), "Propagation of waves generated by a pressure disturbance moving in a channel", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 965-972.

2.2.133 Zhou, X., Sutulo, S. and Guedes Soares, C. (2015), "Analysis of the numerical errors in the application of the 3D moving patch method to ship-to-ship interaction in shallow water", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 973-984.

2.2.134 Ahmed, Y.M., Ciortan, C., Wnek, A.D. and Guedes Soares, C. (2015), "Free surface flow simulation around a Wigley hull using viscous and potential flow approaches", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 985-992.

2.2.135 Gadelho, J.F.M., Lavrov, A., Guedes Soares, C., Urbina, R., Cameron, M.P. and Thiagarajan, K.P. (2015), "CFD modelling of the waves generated by a wedge-shaped wave maker", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 993-1000.

2.2.136 Gadelho, J.F.M., Rodrigues, J.M., Lavrov, A. and Guedes Soares, C. (2015), "Determining hydrodynamic coefficients of a cylinder with Navier-Stokes equations", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1001-1008.

2.2.137 Tarbiat, S., Lavrov, A. and Guedes Soares, C. (2015), "Numerical simulation of the free surface turbulent flow of a Wigley hull with trim and drift angle", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1009-1018.

2.2.138 Abbasnia, A., Ghaisi, M. and Guedes Soares, C. (2015), "Fully non-linear time domain simulation of 3D wave-body interaction by numerical wave tank", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1019-1028.

2.2.139 Uzunoglu, E., Ribeiro e Silva, S. and Guedes Soares, C. (2015), "Numerical and experimental study of parametric rolling of a container ship in regular and irregular head waves", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1047-1058.

2.2.140 Wang, S. and Guedes Soares, C. (2015), "Experimental and numerical study on bottom slamming probability of a chemical tanker subjected to irregular waves", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1065-1072.

2.2.141 Wang, S., Karmakar, D. and Guedes Soares, C. (2015), "Hydroelastic impact due to longitudinal compression on transient vibration of a horizontal elastic plate", *Maritime Technology and*

Engineering, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1073-1080.

2.2.142 Ferrari, V., Sutulo, S. and Guedes Soares, C. (2015), "Preliminary investigation on automatic berthing of waterjet catamaran", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1105-1112.

2.2.143 Ezoji M., Gharabaghi, A.R.M. and Gol-Zaroudi, H. (2015), "The effects of wave parameters on motion performance of semi-submersible platforms", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1137-1144.

2.2.144 Jaswar, K., Siow, C.L., Khairuddin, N.M., Abyn, H. and Guedes Soares, C. (2015), "Comparison of floating structures motion prediction between diffraction, diffraction-viscous and Diffraction-Morison methods", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1145-1152.

2.2.145 Lavrov, A. and Guedes Soares, C. (2015), "On the influence of damping plates on the vertical oscillations of cylinders", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1169-1176.

2.2.146 Uzunoglu, E. and Guedes Soares, C. (2015), "Parametric modelling of multi-body cylindrical offshore wind turbine platforms", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1185-1196.

2.2.147 Gaspar, J.F. and Guedes Soares, C. (2015), "Modelling pump efficienty in a generic hydraulic Power Take-Off for wave energy point absorbers", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1233-1242.

2.2.148 Karmakar, D. and Guedes Soares, C. (2015), "Hydrodynamic analysis of vertical flapping thin plate in oblique incident waves", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 1251-1258.

2.2.149 Abbasnia, A., Ghiasi, M., Barandiaran, J. and Guedes Soares, C. (2015), "An implicit model of a submerged horizontal cylinder oscillating about an off-centered axis as a wave energy converter", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 247-255.

2.2.150 Asghari, M. and Guedes Soares, C. (2015), "Investigation of wind speed effect on dynamics of a semisubersible offshore floating wind turbine", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 665-672.

2.2.151 Bozo, N.T., Karmakar, D. and Guedes Soares, C. (2015), "Numerical investigation of submerged surging plate wave energy converter", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 515-522.

2.2.152 Calvario, M., Guedes Soares, C. and Gaspar, J.F. (2015), "Comparative study of lever mechanisms connected to oil-hydraulic power take-off systems", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 271-278.

2.2.153 Vettor, R. and Guedes Soares, C. (2015), "Multi-objective Route Optimization for Onboard Decision Support System", *Information, Communication and Environment: Marine Navigation and Safety of Sea Transportation*, A. Weintrit & T. Neumann (Eds.), CRC Press, Taylor & Francis Group, Leiden, The Netherlands, pp. 99-106.

2.2.154 Gadelho, J., Karmakar, D., Lavrov, A. and Guedes Soares, C. (2015), "CFD analysis of a rigid bottom fixed submerged structure", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 531-537

2.2.155 Gaspar, J.F., Calvario, M. and Guedes Soares, C. (2015), "Pump and gas accumulator based phase control of wave energy converters", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 295-303.

2.2.156 Zaroudi, H.G., Rezanejad, K. and Guedes Soares, C. (2015), "Assessment of mooring configurations on the performance of a floating oscillating water column energy convertor", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 921-928.

2.2.157 Karmakar, D. and Guedes Soares, C. (2015), "Review on the design criteria and scope of multi-use offshore platforms", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 867-875.

2.2.158 Mohapatra, S.C. and Guedes Soares, C. (2015), "Wave forces on a floating structure based on Boussinesq formulation in shallow water", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 335-342.

2.2.159 Raed, K., Karmakar, D. and Guedes Soares, C. (2015), "Uncertainty modelling of wave loads acting on semi-submersible floating support structure for offshore wind turbine", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 945-951.

2.2.160 Rezanejad, K. and Guedes Soares, C. (2015), "Effect of spectral shape uncertainty in short term performance of a Oscillating Water Column device", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 479-487.

2.2.161 Tarbiat, S. and Guedes Soares, C. (2015), "Numerical simulation of aerodynamic performance for three dimensional wind turbine", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 781-788.

2.2.162 Uzunoglu, E. and Guedes Soares, C. (2015), "Comparison of Numerical and Experimental Data for a Semi-Submersible Type Floating Offshore Wind Turbine", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 747-754.

2.2.163 Uzunoglu, E. and Guedes Soares, C. (2015), "The influence of bracings on the hydrodynamic modelling of a semi-submersible offshore wind turbine platform", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 755-762.

2.2.164 Sinha, A., Karmakar, D. and Guedes Soares, C. (2015), "Effect of floater shapes on the power take-off of wave energy converters", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 375-382.

2.2.165 Sinha, A., Karmakar, D. and Guedes Soares, C. (2015), "Numerical modelling of array of heaving point absorbers", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 383-391.

2.2.166 Vettor, R., Prpiæ-Oršiæ, J. and Guedes Soares, C. (2015), "The effect of wind loads on the attainable ship speed on seaways", *Towards Green Marine Technology and Transport*, Guedes Soares, C. Dejhalla R. and Pavletiæ D., (Eds.), Taylor & Francis Group, London, UK, pp. 867-874.

2.2.167 Temarel, P., Bai, W., Bruns, A., Derbanne, Q., Dessi, D., Dhavalikar, S., Fonseca, N., Fukasawa, T., Gu, X., Nestgard, A., Papanikolaou, A., Parunov, J., Song, K.H. and Wang, S. (2015), "Committee I.2 – Loads", *19th International Ship and Offshore Structures Congress (ISSC 2015)*, Guedes Soares, C. & Garbatov Y., (Eds.), Elsevier, pp. 73-140.

2.2.168 Gao, Z., Bingham, H.B., Nicholls-lee, R., Adam, F., Karmakar, D., Karr, D.G., Catipovic, I., Colicchio, G., Sheng, W., Liu, PF., Takaoka, Y., Slatte, J., Shin, H-K., Mavrakos, S.A., Jhan, Y-T. and Ren, H.L. (2015), "Offshore Renewable Energy", *19th International Ship and Offshore Structures Congress (ISSC 2015)*, C. Guedes Soares & Y. Garbatov, (Eds.), Elsevier, pp. 669-722.

2.2.169 Uzunoglu, E., Karmakar, D. and Guedes Soares, C. (2016), "Floating Offshore Wind Platforms", *Floating Offshore Wind Farms*, L. Castro-Santos & V. Diaz-Casas (Eds.), Springer International Publishing Switzerland, pp. 53-76.

2.2.170 Salvação, N. and Guedes Soares, C. (2016) "Resource Assessment Methods in the Offshore Wind Energy Sector", *Floating Offshore Wind Farms*, L. Castro-Santos & V. Diaz-Casas (Eds.), Springer International Publishing Switzerland, pp. 121-141.

2.2.171 Santos, F.P., Teixeira, A.P. and Guedes Soares, C. (2016), "Operation and maintenance of floating offshore wind turbines", *Floating Offshore Wind Farms*, L. Castro-Santos & V. Diaz-Casas (Eds.), Springer International Publishing Switzerland, pp. 181-193.

2.2.172 Asghari, M., Sohrabi, M., Mohammadzadeh, M. and Guedes Soares, C. (2016), "Estimation of hydrodynamic loads of an offshore supply vessel in uniform current", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 235-240.

2.2.173 Ferrari, V., Sutulo, S. and Guedes Soares, C. (2016), "Non-linear control for the automatic berthing of waterjet catamaran", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 201-209.

2.2.174 Gadelho, J.F.M., Guedes Soares, C., Anand, K.V. and Sundar, V. (2016), "Numerical modelling of curved-front seawalls under regular waves", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1167-1173.

2.2.175 Gaspar, J.F., Sinha, A., Calvario, M. and Guedes Soares, C. (2016), "Power Take-Off concept with flow proportional valves based rectification", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1111-1118.

2.2.176 Hinostroza, M.A. and Guedes Soares, C. (2016), "Non-parametric estimation of directional wave spectra using two hyperparameters", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 287-293.

2.2.177 Koto, J., Loon S.C., Yasukawa, H., Guedes Soares, C., Matsuda, A., Terada, D. and Abyn, H. (2016), "Motion response of round shape FLNG due to interaction with another floating structure", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 317-324.

2.2.178 Labanti, J., Islam, H. and Guedes Soares, C. (2016), "CFD assessment of Ropax hull resistance with various initial drafts and trim angles", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 325-332.

2.2.179 Lima, D.B.V., Sutulo, S. and Guedes Soares, C. (2016), "Study of Ship-to-Ship Interaction in Shallow Water with account for Squat Phenomenon", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 333-338.

2.2.180 Mohapatra, S.C., Fonseca, R.B. and Guedes Soares, C. (2016), "A comparison between analytical and numerical simulations of solutions of the coupled Boussinesq equations", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1175-1180.

2.2.181 Mohapatra, S.C. and Guedes Soares, C. (2016), "Effect of submerged horizontal flexible membrane on a moored floating elastic plate", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1181-1188.

2.2.182 Raed, K.H., Uzunoglu, E. and Guedes Soares, C. (2016), "Long-term assessment of the wave load acting on semi-submersible wind turbine support structure", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1125-1132.

2.2.183 Pires da Silva, P. and Guedes Soares, C. (2016), "Uncertainty modelling in ship manoeuvring models", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 361-369.

2.2.184 Sinha, A., Karmakar, D., Gaspar, J.F., Calvário, M. and Guedes Soares, C. (2016), "Time domain analysis of circular array of heaving point absorbers", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1133-1140.

2.2.185 Sutulo, S. and Guedes Soares, C. (2016), "Analysis of manoeuvrability criteria and standards in view of environmental factors and EEDI impact", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 371-383

2.2.186 Tarbiat, S. and Guedes Soares, C. (2016), "Ship resistance and flow field around the KVLCC2 hull", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 385-390.

2.2.187 Vettor, R. and Guedes Soares, C. (2016), "Analysis of the sensitivity of a multi-objective genetic algorithm for route optimization to different settings", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 175-181.

2.2.188 Vettor, R., Tadros, M., Ventura, M. and Guedes Soares, C. (2016), "Route planning of a fishing vessel in coastal waters with fuel consumption restraint", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 167-173.

2.2.189 Vitali, N., Prpiæ-Oršiæ, J. and Guedes Soares, C. (2016), "Uncertainties related to the estimation of added resistance of a ship in waves", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 391-399.

2.2.190 Wang, M.Y., Guedes Soares, C. and Yang, S.L. (2016), "Hull resistance modelling of flat autonomous underwater vehicle based on response surface method", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 339-345.

2.2.191 Wang, S. and Guedes Soares, C. (2016), "Hydroelastic vibration of bottom plating subjected to wave impact", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 401-407.

2.2.192 Xu, H.T. and Guedes Soares, C. (2016), "Waypoint-following for a marine surface ship model based on vector field guidance law", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 409-418.

2.2.193 Xu, S., Ji, C. and Guedes Soares, C. (2016), "Semi-taut mooring line ", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1149-1155.

2.2.194 Anvesh, V., Karmakar, D. and Guedes Soares, C. (2016), "Performance of oscillating water column wave energy converters integrated in breakwaters", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 295-302.

2.2.195 Calvário, M., Gaspar, J.F., Sinha, A. and Guedes Soares, C. (2016), "Optimization of an oil-hydraulic Power Take-Off system based on an adaptable mechanism interface", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 435-443.

2.2.196 Gaspar, J.F., Calvário, M., Sinha, A. and Guedes Soares, C. (2016), "Concept of reciprocating oil-hydraulic cylinders for increased wave power harvesting", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 463-471.

2.2.197 Uzunoglu, E. and Guedes Soares, C. (2016), "Generic supervisory system for the automation of model building, and iterative simulations with the wind turbine simulation tool FAST", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 627-635.

2.2.198 Vijay, K.G., Karmakar, D., Uzunoglu, E. and Guedes Soares, C. (2016), "Performance of barge-type floaters for floating wind turbine", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 637-645.

2.2.199 Raed, K., Uzunoglu, E. and Guedes Soares, C. (2016), "Uncertainty associated with the estimation of drag and inertia coefficients of fixed vertical cylinders", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 767-774.

2.2.200 Uzunoglu, E. and Guedes Soares, C. (2016), "On the model uncertainty of offshore code comparison collaboration continuation within IEA wind task 30: Phase II results regarding a floating semisubmersible wind system", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 785-794.

2.2.201 Diaz, H.M., Rodrigues, J.M. and Guedes Soares, C. (2016), "Preliminary cost assessment of an offshore floating wind farm installation on the Galician coast", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 843-850.

2.2.202 Xu, S., Rodrigues, J.M. and Guedes Soares, C. (2016), "Hydrodynamic analysis and optimization of a wave activated device", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 285-292.

2.2.203 Rajendran, S. and Guedes Soares, C. (2017) "Vertical wave loads acting on a cruise ship in head, oblique and following regular waves", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 29-34.

2.2.204 Rodrigues, J.M. and Guedes Soares, C. (2017) "Still water vertical bending moment in a flooding damaged ship", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 35-42.

2.2.205 Wang, S. and Guedes Soares, C. (2017) "Hydroelastic effects on slamming loads and dynamic response of flexible panels", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 59-67.

2.2.206 Calvário, M., Sutherland, L.S. and Guedes Soares, C. (2018) "A review of the applications composite materials in wave and tidal energy devices", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 695-701.

2.2.207 Gadelho, J.F.M., Mohapatra, S.C. and Guedes Soares, C. (2018) "CFD analysis of a fixed flating box-type structure under regular waves", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 513-520.

2.2.208 Hallak, T.S. and Simos, A.N. (2018) "Influences of a bow turret system on an FPSO's pitch RAO", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 465-471.

2.2.209 Hallak, T.S., Ventura, M. and Guedes Soares, C. (2018) "Parametric equations for the design of a logistic support platform", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 49-56.

2.2.210 Hassan, M.A.A.A. and Guedes Soares, C. (2018) "Multibody dynamics of floaters during installation of a spar floating wind turbine", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 371-380.

2.2.211 Hinostroza, M.A., Xu, H.T. and Guedes Soares, C. (2018) "Experimental and numerical simulations of zig-zag manoeuvres of a self-running ship model", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 563-570.

2.2.212 Hinostroza, M.A., Xu, H.T. and Guedes Soares, C. (2018) "Path-planning and path-following control system for autonomous surface vessel", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 991-998.

2.2.213 Islam, H. and Akimoto, H. (2018) "Simulation dependency on degrees of freedom in RaNS solvers for predicting ship resistance", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 521-526.

2.2.214 Islam, H. and Guedes Soares, C. (2018) "Prediction of ship resistance in head waves using OpenFOAM", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 527-533.

2.2.215 Kamarlouei, M., Gaspar, J.F. and Guedes Soares, C. (2018), "Evaluating a novel control strategy to improve the performance of hydraulic power take-offs in wave energy converters", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1185-1192.

2.2.216 Sutulo, S. and Guedes Soares, C. (2018), "Comparative simulation of definitive manoeuvres of the KVLCC2 benchmark ship using different empiric mathematical models", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 571-579.

2.2.217 Xu, H.T., Hinostroza, M.A. and Guedes Soares, C. (2018), "A hybrid controller design for ship autopilot based on free-running model test", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1051-1059.

2.2.218 Hinostroza, M.A. and Guedes Soares, C. (2018), "Collision avoidance, guidance and control system for Autonomous Surface Vehicles in complex navigation conditions", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 121-132.

2.2.219 Vettor, R., Tadros, M., Ventura, M., and Guedes Soares, C. (2018), "Influence of main engine control strategies on fuel consumption and emissions", *Progress in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor & Francis Group, London, UK, pp. 157-164.

2.2.220 McSullea, G.T.P., Rodrigues, J.M. and Guedes Soares, C. (2018), "Wake of a catamaran navigating in restricted waters", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 175-184.

2.2.221 Islam, H. and Guedes Soares, C. (2018), "A CFD study of a ship moving with constant drift angle in calm water and waves", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 185-194.

2.2.222 Pedro, F.G.L., Santos, J.A., Pinheiro, L.V., Fortes, C.J.E.M. and Hinostroza, M.A. (2018), "Characterization of ship motions induced by wake waves", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 547-556.

2.2.223 Abdelwahab, H.S. and Guedes Soares, C. (2018), "Motions and mooring loads of a tanker moored at open jetty in long crested irregular waves including second order effects", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 557-568.

2.2.224 Rodrigues, S.R.A., Santos, J.A. and Guedes Soares, C. (2018), "Numerical and experimental study of ship-generated waves", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 569-578.

2.2.225 Belga, F., Ventura, M. and Guedes Soares, C. (2018), "Seakeeping optimization of a catamaran to operate as fast crew supplier at the Alentejo basin", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 587-598.

2.2.226 Belga, F., Sutulo, S. and Guedes Soares, C. (2018), "Comparative study of various strip-theory seakeeping codes in predicting heave and pitch motions of fast displacement ships in head seas", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 599-610.

2.2.227 Islam, H., Mohapatra, S.C. and Guedes Soares, C. (2018), "Comparisons of CFD, experimental and analytical simulations of a heaving box-type floating structure", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 633-640.

2.2.228 Guo, Y., Mohapatra, S.C. and Guedes Soares, C. (2018), "Wave interaction with a rectangular long floating structure over flat bottom", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 647-656.

2.2.229 Taveira-Pinto, F., Rosa-Santos, P., Rodriguez, C.A., López, M., Ramos, V., Xu, S., Rezanejad, K., Wang, S. and Guedes Soares, C. (2018), "Optimization of wave energy converters in the OPWEC Project", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 657-666.

2.2.230 Xu, S., Wang, S., Hallak, T.S., Rezanejad, K., Hinostroza, M.A., Guedes Soares, C., Rodriguez, C.A., Rosa-Santos, P. and Taveira-Pinto, F. (2018), "Experimental study of two mooring systems for wave energy converters", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 667-686.

2.2.231 Abbasnia, A. and Guedes Soares, C. (2019), "Hydrodynamic analysis of a land-based oscillating water column device using fully nonlinear numerical wave flume", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 465-473.

2.2.232 Berenjkoob, M.N., Ghiasi, M. and Guedes Soares, C. (2019), "Hydrodynamic analysis of different geometries of a wave energy absorber buoy", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 273-280.

2.2.233 Diaz, H.M., Fonseca, R.B. and Guedes Soares, C. (2019), "Site selection process for floating offshore wind farms in Madeira Islands", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 729-737.

2.2.234 Diaz, H.M., Sannasiraj, S.A. and Guedes Soares, C. (2019), "Experimental study of behaviour and efficiency on a backward bent duct buoy", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 409-419.

2.2.235 Gaspar, J.F., Hallak, T.S. and Guedes Soares, C. (2019), "Semi-submersible platform concept for a concentric array of Wave Energy Converters", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 307-314.

2.2.236 Hassan, M.A.A.A. and Guedes Soares, C. (2019), "Analysis of vessel shielding effects during installation of spar floating wind turbine", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 693-702.

2.2.237 Kamarlouei, M., Gaspar, J.F., Calvário, M., Hallak, T.S., Guedes Soares, C., Mendes, M.J.G.C. and Thiebaut, F. (2019), "Prototyping and wave tank testing of a floating platform with point absorbers", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 421-428.

2.2.238 Kamarlouei, M., Gaspar, J.F., Guedes Soares, C., Cruz, B.F. and Mendes, M.J.G.C. (2019), "A review of fault tolerant design in wave energy converters", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 369-378.

2.2.239 Kamarlouei, M. and Guedes Soares, C. (2019), "Hydrodynamics of a new two body wave energy converter in the frequency domain", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 315-321.

2.2.240 Lang, X., Yang, S.H., Ringsberg, J.W., Johnson, E., Guedes Soares, C. and Rahm, M. (2019), "Comparison between full-scale measurements and numerical simulations of mooring forces in a floating point-absorbing WEC system", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 865-873.

2.2.241 Mohapatra, S.C., Islam, H. and Guedes Soares, C. (2019), "Wave diffraction by a floating fixed truncated vertical cylinder based on Boussinesq equations", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 281-289.

2.2.242 Rajan, S.N., Karmakar, D. and Guedes Soares, C. (2019), "Influence of damping on the Oscillating Water Column WEC integrated with breakwater", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 579-587.

2.2.243 Rezanejad, K. and Guedes Soares, C. (2019), "Application of a stepped sea bottom condition to improve hydrodynamic performance of OWC devices", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 521-530.

2.2.244 Wang, S., Xu, S., Xiang, G. and Guedes Soares, C. (2019), "An overview of synthetic mooring cables in marine application", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 853-863.

2.2.245 Xiang, G., Xu, S., Wang, S. and Guedes Soares, C. (2019), "Comparative study on two different mooring systems for a buoy", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 829-835.

2.2.246 Raed, K., Teixeira, A.P. and Guedes Soares, C. (2019), "Assessment of long-term extreme response of a floating support structure using the environmental contour method", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 685-692.

2.2.247 Hinostroza, M.A., Xu, H.T. and Guedes Soares, C. (2020), "Manoeuvring test for a self-running ship model in various water depth conditions", *Sustainable Development and Innovations in Marine Technologies*, Georgiev, P. & Guedes Soares C. (Eds.), Taylor and Francis Group, London, pp. 187-196.

2.2.248 Hinostroza, M.A. and Guedes Soares, C. (2020), "Uncertainty analysis of parametric wave spectrum estimation from ship motions", *Sustainable Development and Innovations in Marine Technologies*, Georgiev, P. & Guedes Soares C. (Eds.), Taylor and Francis Group, London, pp. 70-78.

2.2.249 Krata, P., Vettor, R. and Guedes Soares, C. (2020), "Bayesian approach to ship speed prediction based on operational data", *Developments in the Collision and Grounding of Ships and Offshore Structures*, C. Guedes Soares (Ed.), Taylor and Francis Group, London, pp. 384-390.

2.2.250 Silva, N., Wang, S. and Guedes Soares, C. (2020), "ALE and Finite Element Investigation of Water Impact on Composite Panels", *Developments in the Collision and Grounding of Ships and Offshore Structures*, C. Guedes Soares (Ed.), Taylor and Francis Group, London, pp. 227-236.

2.2.251 Tadros, M., Ventura, M. and Guedes Soares, C. (2020), "Optimum design of a container ship's propeller from Wageningen B-series at the minimum BSFC", *Sustainable Development and Innovations in Marine Technologies*, Georgiev, P. & Guedes Soares C. (Eds.), Taylor and Francis Group, London, pp. 269-274.

2.2.252 Tadros, M., Ventura, M. and Guedes Soares, C. (2020), "Simulation of the performance of marine genset based on double-Wiebe function", *Sustainable Development and Innovations in Marine Technologies*, Georgiev, P. & Guedes Soares C. (Eds.), Taylor and Francis Group, London, pp. 292-299.

2.2.253 Tadros, M., Ventura, M., Guedes Soares, C. and Lampreia, S. (2020), "Predicting the performance of a sequentially turbocharged marine diesel engine using ANFIS", *Sustainable Development and Innovations in Marine Technologies*, Georgiev, P. & Guedes Soares C. (Eds.), Taylor and Francis Group, London, pp. 300-305.

2.2.254 Uzunoglu, E. and Guedes Soares, C. (2021), "Response dynamics of a free-float capable tension leg platform for a 10 MW wind turbine at the Northern Iberian Peninsula", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 408-416.

2.2.255 Vittori, F., Pires, O., Azcona, J., Uzunoglu, E., Guedes Soares, C., Zamora Rodriguez, R. and Souto-Iglesias, A. (2021), "Hybrid scaled testing of a 10MW TLP floating wind turbine using the SiL method to integrate the rotor thrust and moments", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 417-423.

2.2.256 Wang, S., Xu, S., Guedes Soares, C., Zhang, Y., Liu, HX. and Li, L. (2021), "Experimental study of nonlinear behavior of a nylon mooring rope at different scales", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 690-697.

2.2.257 Islam, H. and Guedes Soares, C. (2021), "Validation study for a heaving sphere in waves", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London,

UK, pp. 88-95.

2.2.258 Rezanejad, K., Abbasnia, A. and Guedes Soares, C. (2021), "Hydrodynamic performance assessment of dual chamber shoreline Oscillating Water Column devices", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 188-196.

2.2.259 Hassan, M.A.A.A. and Guedes Soares, C. (2021), "Installation of pre-Assembled offshore floating wind turbine using a floating vessel", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 461-468.

2.2.260 Gaspar, J.F., Kamarlouei, M., Calvário, M. and Guedes Soares, C. (2021), "Design of power take-offs for combined wave and wind harvesting floating platforms", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 785-793.

2.2.261 Kamarlouei, M., Gaspar, J.F., Hallak, T.S., Guedes Soares, C. and Thiebaut, F. (2021), "Survivability analysis of the mooring system of a combined wave and wind harvesting concept", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 282-290.

2.2.262 Mas-Soler, J., Uzunoglu, E., Guedes Soares, C., Bulian, G. and Souto-Iglesias, A. (2021), "Transportation tests of the CENTEC-TLP concept in waves", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 399-407.

2.2.263 Bispo, I.B.S., Mohapatra, S.C. and Guedes Soares, C. (2021), "A review on numerical approaches in the hydroelastic responses of very large floating elastic structures", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 425-436.

2.2.264 Gadelho, J.F.M. and Guedes Soares, C. (2021), "Numerical investigation of monochromatic waves propagation over a submerged bar", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 81-90.

2.2.265 Mohseni, M. and Guedes Soares, C. (2021), "CFD investigation of submerged geometry effect on wave Run-Up around a fixed, vertical monopile in regular head waves", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 101-110.

2.2.266 Xiang, G., Wang, S. and Guedes Soares, C. (2021), "Numerical prediction of hydrodynamic coefficients of a submerged object with constant acceleration method", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 119-130.

2.2.267 Araújo, J.P., Moreira, L. and Guedes Soares, C. (2021), "Modelling ship manoeuvrability using Recurrent Neural Networks", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 131-140.

2.2.268 Costa, A.C., Xu, H.T. and Guedes Soares, C. (2021), "Optimal parameter estimation of empirical manoeuvring model using free-running ship tests", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 151-158.

2.2.269 Hinostroza, M. A. and Guedes Soares, C. (2021), "Global and local path-planning algorithm for marine autonomous surface ships including forecasting information", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 187-196.

2.2.270 Pires da Silva, P., Sutulo, S. and Guedes Soares, C. (2021), "Local sensitivity analysis of a non-linear mathematical manoeuvring model", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 217-226.

2.2.271 Pires da Silva, P., Hinostroza, M.A., Sutulo, S. and Guedes Soares, C. (2021), "Instrumentation and data acquisition system for full-scale manoeuvrability tests on board of naval surface ships", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 227-234.

2.2.272 Sutulo, S. and Guedes Soares, C. (2021), "Investigation of performance of the identification program based on evolutionary optimization algorithms", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 235-246.

2.2.273 Abbasnia, A., Sutulo, S., Callewaert, B. and Guedes Soares, C. (2021), "Development of a three-

dimensional frequency domain seakeeping code", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 247-254.

2.2.274 Feng, QD., Wen, LJ., Wu, JM., Wang, S. and Guedes Soares, C. (2021), "Experimental and numerical investigations of whipping responses of a 20,000TEU ultra large container carrier", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 275-282.

2.2.275 Gil Rosa, J., Wang, S. and Guedes Soares, C. (2021), "Improvement of ship hulls for comfort in passenger vessels", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 283-296.

2.2.276 Silva, L.Z.M., Vettor, R. and Guedes Soares, C. (2021), "Assessment of ship motion responses to multi-peaked spectral models", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 319-328.

2.2.277 Wang, S., Guedes Soares, C., Gonzalez-Cao, J., Dominguez, J.M. and Gomez-Gesteira, M. (2021), "Numerical analysis of water impact of spheres using mesh-free and mesh-based methods", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 329-340.

2.2.278 Abdelwahab, H.S., Guedes Soares, C., Pinheiro, L.V., Fortes, C.J.E.M. and Santos, J. A. (2021), "Experimental and numerical study of wave-induced ship motions and mooring loads of a tanker moored in Leixões port", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 341-350.

2.2.279 Xu, S., Guedes Soares, C. and Ji, CY. (2021), "Investigation of long-term extreme mooring tensions by fully coupled dynamic analysis", Developments in Maritime Technology and Engineering, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 371-384.

2.2.280 Islam, H. and Guedes Soares, C. (2021), "Predicting head wave resistance for a KVLCC2 model using OpenFOAM", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 385-394.

2.2.281 Islam, H., Guedes Soares, C., Kan, J., Liu, J. and Wang, X. (2021), "Investigation of the hydrodynamic properties of an inland container vessel", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 395-402.

2.2.282 Tadros, M., Ventura, M. and Guedes Soares, C. (2021), "A review of the use of Biodiesel as a green fuel for diesel engines", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 481-490.

2.2.283 Tadros, M., Ventura, M. and Guedes Soares, C. (2021), "Sensitivity analysis of the steam Rankine cycle in marine applications", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 491-500.

2.2.284 Hallak, T.S., Karmakar, D. and Guedes Soares, C. (2021), "Hydrodynamic performance of semi-submersible FOWT combined with point-absorbers", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 577-586.

2.2.285 Hallak, T.S., Gaspar, J.F., Kamarlouei, M. and Guedes Soares, C. (2021), "Numerical and experimental analyses of a conical point-absorber moving around a hinge", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 587-596.

2.2.286 Kamarlouei, M., Gaspar, J.F., Hallak, T.S., Calvário, M., Guedes Soares, C. and Thiebaut, F. (2021), "Experimental analysis of wind thrust effects on the performance of a wave energy converter array adapted to a floating offshore platform", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 597-606.

2.2.287 Raed, K., Guedes Soares, C. and Murali, K. (2021), "Experimental and numerical analysis of a spar platform subjected to regular waves", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 607-616.

2.2.288 Raed, K., Guedes Soares, C. and Murali, K. (2021), "Experimental and numerical analysis of a spar platform subjected to irregular waves", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 617-626.

2.2.289 Rony, J.S., Karmakar, D. and Guedes Soares, C. (2021), "Dynamic analysis of submerged TLP wind turbine combined with heaving wave energy converter", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 639-646.

2.2.290 Uzunoglu, E. and Guedes Soares, C. (2021), "An integrated design approach for a self-float capable tension leg platform for wind energy", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 673-684.

2.2.291 Bernardo, T.A. and Guedes Soares, C. (2021), "Validation of tools for the analysis of offshore aquaculture installations", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 685-692.

2.2.292 Liu, ZC., Garbatov, Y. and Guedes Soares, C. (2021), "Numerical modelling of full-scale aquaculture cages under uniform flow", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 705-712.

2.2.293 Guo, Y.C., Mohapatra, S.C. and Guedes Soares, C. (2021), "Effect of vertical rigid wall on a moored submerged horizontal flexible porous membrane", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 757-766.

2.2.294 Piecho-Santos, A.M.P., Hinostroza, M.A., Rosa, T.L. and Guedes Soares, C. (2021), "Autonomous Observing Systems in Fishing Vessels", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 805-808.

2.2.295 Vicente, L., Lomelino, P., Carreira, F., Campos, F.M., Mendes, M.J.G.C., Osório, A.L. and Calado, J.M.F. (2021), "Industrial Collaborative Robotics Platform", *Smart and Sustainable Collaborative Networks 4.0. PRO-VE 2021*, Camarinha-Matos L.M., Boucher X. & Afsarmanesh H. (Eds), Springer Nature Switzerland, IFIP AICT 629, pp. 567-576.

2.2.296 Liu, ZC. and Guedes Soares, C. (2022), "Preliminary experiments of the behaviour of circular gravity cage in linear waves", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 599-604.

2.2.297 Hermundstad, O.A., Chai, SH., de Hauteclocque, G., Dong, S., Fang, C.-C., Johannessen, T.B., Morooka, C., Oka, M., Prpić-Oršić, J., Sacchet, A., Sazidy, M., Uğurlu, B., Vettor, R. and Wellens, P. (2022), "Committee I.2: Loads", Wang, X. & Pegg N. (Eds.), *21st International Ship and Offshore Structures Congress (ISSC 2022)*, IOS Press Ebooks, pp. 126-226.

2.2.298 Paiva, A., Dessi, D., Storhaug, G., Zhang, GY., Drummen, I., Moro, L., Holtmann, M., Shyu, R-J., Wang, S., Dhavalikar, C., Wang, Sue, Sævik, S., Wu, W.W., Huh, Y-C. and Yamada, Y. (2022), "Committee II.2: Dynamic Response", Wang, X. & Pegg N. (Eds.), *21st International Ship and Offshore Structures Congress (ISSC 2022)*, IOS Press Ebooks, pp. 301-393.

2.2.299 Kolios, A., Kim, K-H., Cheng, C.H., Oguz, E., Morato, P., Freeman, R., Fang, C., Ji, CY., Le Boulluec, M., Choisnet, T., Greco, L., Utsunomiya, T., Rezanejad, K., Rawson, C. and Rodrigues, J.M. (2022), "Committee V.4: Offshore Renewable Energy", Wang, X. & Pegg N. (Eds.), *21st International Ship and Offshore Structures Congress (ISSC 2022)*, IOS Press Ebooks, pp. 241-311.

2.2.300 Abbasnia, A., Sutulo, S. and Guedes Soares, C. (2022), "Three-dimensional potential seakeeping code in frequency domain for advancing ships", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 261-268.

2.2.301 Abdelwahab, H.S., Wang, S. and Guedes Soares, C. (2022), "Uncertainty assessment of wave-induced motions and loads on a container ship with a forward speed", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 269-282.

2.2.302 Ferrari, V., Sutulo, S. and Guedes Soares, C. (2022), "Spherical harmonic expansion of hydrodynamic hull forces", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 337-346.

2.2.303 Islam, H., Ventura, M., Guedes Soares, C., Tadros, M. and Abdelwahab, H.S. (2022), "Comparison between empirical and CFD based methods for ship resistance and power prediction", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 347-358.

2.2.304 Jiao, JL., Wang, S. and Guedes Soares, C. (2022), "A CFDFEA coupled method for ship hydroelasticity analyses", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. &

Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 359-364.

2.2.305 Mauricio, F. and Moreira, M. (2022), "Optimization of sailboat routes under non-uniform wind velocity fields", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 391-396.

2.2.306 Mohseni, M. and Guedes Soares, C. (2022), "Numerical study of the wave pattern around surface-piercing columns with different cross-sections in steep, monochromatic waves", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 397-408.

2.2.307 Rahmann, M.M., Zakaria, N.M.G., Mostafiz, M. and Islam, H. (2022), "A comparative study for resistance prediction using different RANS solvers", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 425-434.

2.2.308 Sutulo, S. and Guedes Soares, C. (2022), "Investigation of responses of a modular manoeuvring mathematical model to parameters variations", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 451-460.

2.2.309 Tadros, M., Ventura, M. and Guedes Soares, C. (2022), "Assessment of marine Genset performance with biodiesel fuel using the double-Wiebe function", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 545-552.

2.2.310 Tadros, M., Vettor, R., Ventura, M. and Guedes Soares, C. (2022), "Effect of different speed reduction strategies on ship fuel consumption in realistic weather conditions", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 553-562.

2.2.311 Hinostroza, M.A., Santos, F.P., Vettor, R., Rodrigues, M., Vieira, Mh. and Guedes Soares, C. (2022), "Preliminary results of a real-time onboard monitoring system and data recording for a container ship", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 583-592.

2.2.312 Xu, H.T. and Guedes Soares, C. (2022), "Adaptive nonlinear vessel steering modelling using time-sequence incremental and decremental LS-SVM", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 601-612.

2.2.313 Karatug, C., Arslanoglu, Y. and Guedes Soares, C. (2022), "Evaluation of decarbonization strategies for existing ships", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 45-54.

2.2.314 Gomes, A.H., Pinheiro, L.V., Fortes, C.J.E.M. and Santos, J.A. (2022), "Applying the SAFEPORT System in a storm situation", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 205-212.

2.2.315 Pinheiro, L.V., Fortes, C.J.E.M., Gomes, A.H., Santos, J.A. and Guedes Soares, C. (2022), "BlueSafePort Project - Safety System for Maneuvering and Moored Ships at the Port of Sines", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 265-272.

2.2.316 Sreebhadra, M.N., Rony, J.S., Karmakar, D. and Guedes Soares, C. (2022), "Extreme response analysis for TLP-type floating wind turbine using Environmental Contour Method", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 315-324.

2.2.317 Uzunoglu, E., Bernardo, C. and Guedes Soares, C. (2022), "The effect of high-altitude wind forecasting models on power generation, structural loads, and wind farm optimisation", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 325-334.

2.2.318 Bispo, I.B.S., Mohapatra, S.C. and Guedes Soares, C. (2022), "Numerical model of a WEC-type attachment of a moored submerged horizontal set of articulated plates", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 335-344.

2.2.319 Gadelho, J.F.M., Guedes Soares, C., Barajas, G. and Lara, J.L. (2022), "CFD analysis of the PTO damping on the performance of an onshore dual chamber OWC", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp.

381-390.

2.2.320 Gaspar, J.F., Pinheiro, R.F., Kamarlouei, M., Guedes Soares, C. and Mendes, J.J.G.C. (2022), "Review on hardware-in-the-loop simulation of wave energy converters", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 391-400.

2.2.321 Hallak, T.S., Kamarlouei, M., Gaspar, J.F. and Guedes Soares, C. (2022), "Time domain analysis of a conical point-absorber moving around a hinge", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 401-410.

2.2.322 Hmedi, M., Uzunoglu, E. and Guedes Soares, C. (2022), "Influence of platform configuration on the hydrodynamic performance of semi-submersibles for offshore wind energy", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 411-420.

2.2.323 Hmedi, M., Uzunoglu, E. and Guedes Soares, C. (2022), "Review of hybrid model testing approaches for floating wind turbines", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 421-428.

2.2.324 Kamarlouei, M. and Guedes Soares, C. (2022), "Uncertainty analysis in the frequency domain simulation of a hinged wave energy converter", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 435-444.

2.2.325 Rony, J.S., Karmakar, D. and Guedes Soares, C. (2022), "Dynamic response analysis of a combined wave and wind energy platform under different mooring configuration", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 477-488.

2.2.326 Souza Filho, J.C., Rezanejad, K., and Guedes Soares, C. (2022), "Hydrodynamic analysis of a dual-body Wave Energy Converter device with two different Power Take-off configurations", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 499-508.

2.2.327 Valencia, J.B. and Guedes Soares, C. (2022), "A preliminary evaluation of the performance parameters of point absorbers for the extraction of wave energy", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 509-518.

2.2.328 Guo, Y.C., Liu, ZC., Mohapatra, S.C. and Guedes Soares, C. (2022), "Experimental investigation of an array of vertical flexible net-type structures under regular waves", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 573-580.

2.2.329 Liu, ZC. and Guedes Soares, C. (2022), "Numerical study on the mooring force of a gravity-type fish cage under currents and waves", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 591-598.

2.3 Conference Proceedings

2.3.1 Guedes Soares, C. (1987), "Transient Response of Ship Hulls to Wave Impact", *Proceedings of the* 4th *National Congress on Theoretical and Applied Mechanics*, 14-17 December, Coimbra, Portugal, Vol. 3.26, pp. 1-19.

2.3.2 Guedes Soares, C. (1989), "Uncertainty of Wave Load Models for Reliability Analysis of Ship Structures", *Proceedings of the 3rd International Symposium on Ships' Reliability (ISSR)*, Varna, Bulgaria, pp.1-17.

2.3.3 Guedes Soares, C. and Trovão, M.F.S. (1990), "Sensitivity of Ship Motion Predictions to Wave Climate Description", *Proceedings of the 4th International Conference on Stability of Ships and Ocean Vehicles*, Naples, Italy, Vol. II, pp. 582-590.

2.3.4 Guedes Soares, C. (1992), "Long-Term Distribution of Non-linear Wave Induced Vertical Bending Moments", *Proceedings of the Charles Smith Memorial Conference*, 13-14 July, Dunfermline, UK, pp. 1-11.

2.3.5 Guedes Soares, C. and Fonseca, N. (1994), "Seakeeping Performance of Fishing Vessels in the Portuguese Coast", *Proceedings of the LITTORAL ´94*, Carvalho, S. & Gomes, V. (Eds.), EUROCOAST Association, Portugal, Vol. I, pp. 327-341.

2.3.6 Guedes Soares, C., Fonseca, N. and Centeno, R. (1995), "Seakeeping Performance of Fishing Vessels in the Portuguese Economic Zone", *Proceedings of the International Conference on Seakeeping and Weather (RINA)*, Royal Institute of Naval Architects, 28 February-1 March, London, UK, paper 12, pp. 1-10.

2.3.7 Fonseca, N. and Guedes Soares, C. (1995), "Time Simulation of Non-Linear Motion of Cylinders in Waves", *Proceedings of the IV National Meeting of Computational Mechanics*, Lisbon, 10-12 April, Vol. II, pp. 631-644.

2.3.8 Ramos, J. and Guedes Soares, C. (1995), "Vibratory Response of Ship Hulls to Wave Impact Loads", *Proceedings of the IV National Meeting of Computational Mechanics*, 10-12 April, Lisbon, Portugal, Vol. II, pp. 515-528.

2.3.9 Guedes Soares, C. and Schellin, T.E. (1996), "Nonlinear Effects on Long Term Distributions of Wave Induced Loads for Tankers", *Proceedings of the 15th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'96),* Guedes Soares, C. et al (Eds.), ASME, New York, Vol. II, pp. 79-85.

2.3.10 Santos, T.A., Fonseca, N. and Guedes Soares, C. (1997), "Study of the Non-Linear Roll Motions of Fishing Vessels in Regular Seas", *Proceedings of the 6th International Conference on Stability on Ships and Ocean Vehicles (STABS'97),* Bogdanov, P.A. (Ed.), Varna, Bulgaria, Vol. II, pp. 163-177.

2.3.11 Guedes Soares, C., Brown, D.T., Cariou, A., Casella, G., Haddara, M., Jankowski, J., Mavrakos, S., Motter, L., Nedergaard, H., Nestegaard, A., Shen, J.W. and Watanabe, I. (1997), "Loads", *Proceedings of the 13th International Ship and Offshore Structures Congress (ISSC'97),* Moan, T. and Berge, S. (Eds), Elsevier Science, London, UK, Vol. 1, pp. 59-122.

2.3.12 Guedes Soares, C., Fonseca, N. and Ramos, J. (1998), "Prediction of Voyage Duration with Weather Constraints", *Proceedings of the International Conference on Motions and Manoeuvrability",* Royal Institute of Naval Architects, 18-19 February, London, UK, paper 4, pp. 1-13.

2.3.13 Fonseca, N. and Guedes Soares, C. (1998), "Non-Linear Wave Induced Responses of Ships in Irregular Seas", *Proceedings of the 17th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'98)*, Guedes Soares, C. (Eds.), ASME, New York, Vol. II, Paper OMAE98-0446.

2.3.14 Doyle, R., Capurro, G., Wesslink, A., Moore, I., Soares de Albergaria, L. and Guedes Soares, C. (1999), "Safe Passage and Navigation", *Proceedings of the SAFER EURORO Workshop,* 28 April, Nantes, France, pp. 1-20.

2.3.15 Centeno, R. and Guedes Soares, C. (1999), "Ship Motion Analysis of a Catamaran Series", *Proceedings of the 5th International Symposium on High Speed Marine Vehicles*, 24-26 March, Capri, Italy, pp. V5.1-5.13.

2.3.16 Guedes Soares, C., Sutulo, S., Francisco, R., Santos, F.M. and Moreira, L. (1999), "Full-Scale Measurements of Manoeuvring Capabilities of a Catamaran", *Proceedings of the International Conference on Hydrodynamics of High Speed Craft*, 24-25 November, London, UK, paper 12, pp. 1-12.

2.3.17 Guedes Soares, C., Fonseca, N., Santos, P. and Marón, A. (1999), "Model Tests of the Motions of a Catamaran Hull in Waves", *Proceedings of the International Conference on Hydrodynamics of High Speed Craft*, 24-25 November, London, UK, paper 2, pp. 1-10.

2.3.18 Benvenuto, G., Figari, M., Moreira, L. and Guedes Soares, C. (2000), "Dynamic Modelling of Waterjet Propulsion Plants", *Proceedings of the IX International Maritime Association of Mediterranean Congress (IMAM´00),* Cassella, P., Scamardella, A. and Festinese, G. (Eds.), 2-6 April, Ischia, Italy, pp. 52-60.

2.3.19 Ribeiro e Silva, S. and Guedes Soares, C. (2000), "Time Domain Simulation of Parametrically Excited Roll in Head Seas", *Proceedings of the 7th International Conference on Stability of Ships and Ocean Vehicles (STAB'00)*, Renilson, M. (Ed.), 7-11 February, Launceston, Tasmania, Australia, Vol. B, pp. 652-664 (TD).

2.3.20 Santos, T. and Guedes Soares, C. (2000), "The Influence of Obstructions on the Transient Asymmetric Flooding and Progressive Flooding of Ro-Ro Ships", *Proceedings of the 7th International Conference on Stability of Ships and Ocean Vehicles (STAB'00)*, Renilson, M. (Ed.), 7-11 February, Launceston, Tasmania, Australia, Vol. A, pp. 385-395.

2.3.21 Jensen, J.J., Beck, R.F., Du, S., Faltinsen, O.M., Fonseca, N., Rizzuto, E., Stredulinsky, D. and Watanabe, I. (2000), "Extreme Hull Girder Loading", *Proceedings of the 14th International Ship and Offshore Structures Congress (ISSC'00)*, 2-6 October, Nagasaki, Japan, Vol. 2, pp. 236-320.

2.3.22 Moreira, L., Mesbahi, E. and Guedes Soares, C. (2000), "The Application of the Static ANNs in Modelling and Simulation of Marine Propulsion System", *Proceedings of the Marine Science and Technology for Environmental Sustainability Conference* (*ENSUS)*, 4-6 September, Newcastle, UK, pp. 230-241.

2.3.23 Guedes Soares, C., Bondini, F., Brown, D.T., Cariou, A., Engle, A., Kuroiwa, T., Mavrakos, S., Nedergaard, H., Nielsen, F.G., Schellin, T.E. and Tan, P.S.G. (2000), "Loads", *Proceedings of the 14th International Ship and Offshore Structures Congress (ISSC'00)*, 2-6 October, Nagasaki, Japan, Vol. 1, pp. 63-132.

2.3.24 Guedes Soares, C. (2001), "Development Perspectives of Information Technologies for the Management of Maritime Traffic" (in Portuguese), *Mar - Boletim do Instituto Marítimo Portuário*, Suplemento do No. 5, pp. 20-21.

2.3.25 Guedes Soares, C., Fonseca, N. and Pascoal, R. (2001), "Experimental and Numerical Study of the Motions of a Turret Moored FPSO in Waves", *Proceedings of the 20th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'01),* 3-8 June, Rio de Janeiro, Brazil, ASME, New York, Paper OMAE2001/OFT-1071.

2.3.26 Fonseca, N., Ralchev, H. and Guedes Soares, C. (2001), "Seakeeping Assessment of a Monohull Operating in the Portuguese Waters", *Proceedings of the III International Conference on Marine Industry (MARIND'01)*, 4-8 June, Varna, Bulgaria, Vol. III, Section 3, pp. 63-74.

2.3.27 Fonseca, N., Guedes Soares, C. and Pascoal, R. (2001), "Prediction of Ship Dynamic Loads in Heavy Weather", *Proceedings of the RINA Conference on Design and Operation for Abnormal Conditions II,* 6-7 November, London, UK, pp. 169-182.

2.3.28 Guedes Soares, C., Santos, F.M., Pascoal, R. and Costa, M. (2001), "Measurement of the Dynamic Behaviour of Patrol Boats "Dragon" in Sea Trials" (in Portuguese), *Proceedings of the 4th APAET Congress - Experimental Stress Analysis and Experimental Mechanics*, 17-19 October, Bragança, Portugal, Page 41.

2.3.29 Laranjinha, M., Falzarano, J.M. and Guedes Soares, C. (2002), "Analysis of the Dynamical Behaviour of an Offshore Supply Vessel with Water on Deck", *Proceedings of the 21st International Conference on Offshore Mechanics and Arctic Engineering (OMAE'02)*, 23-28 June, Oslo, Norway, ASME, New York, Paper OMAE2002-OFT28177.

2.3.30 Fonseca, N. and Guedes Soares, C. (2002), "Sensitivity of the Expected Ships Availability to Different Seakeeping Criteria", *Proceedings of the 21st International Conference on Offshore Mechanics and Arctic Engineering (OMAE'02)*, 23-28 June, Oslo, Norway, ASME, New York, Paper OMAE2002-OE28542.

2.3.31 Guedes Soares, C. and Pascoal, R. (2002), "Experimental Study of the Probability Distributions of Green Water on the Bow of Floating Production Platforms", *Proceedings of the 21st International Conference on Offshore Mechanics and Arctic Engineer*ing *(OMAE'02)*, 23-28 June, Oslo, Norway, ASME, New York, Paper OMAE2002-SR28626.

2.3.32 Fonseca, N. and Guedes Soares, C. (2003), "Experimental Investigation of the Shipping of Water on the Bow of a Containership", *Proceedings of the 22nd International Conference on Offshore Mechanics and Arctic Engineering (OMAE'03)*, 8-13 June, Cancun, Mexico, ASME, New York, Paper OMAE2003-37456.

2.3.33 Laranjinha, M., Moreira, L. and Guedes Soares, C. (2003), "Identification of Hydrodynamic Coefficients using Genetic Algorithms", *Proceedings of the VII Congress on Computational and Applied Mechanics* (in Portuguese), 14-16 April, Évora, Portugal, Vol. III, Section IV, pp. 1451-1460.

2.3.34 Santos, T.A. and Guedes Soares, C. (2003), "Simulation of Ship Motions with water on Deck", *Proceedings of the VII Congress on Computational and Applied Mechanic* (in Portuguese), 14-16 April, Évora, Portugal, Vol. III, Section III, pp. 1207-1217.

2.3.35 Ribeiro e Silva, S., Santos, T.A. and Guedes Soares, C. (2003), "Time Domain Simulations of a Coupled Parametrically Excited Roll Response in Regular and Irregular Head Seas", *Proceedings of the 8th International Conference on the Stability of Ships and Ocean Vehicles (STAB´03)*, 15-19 September, Madrid, Spain.

2.3.36 Guedes Soares, C., Fonseca, N. and Pascoal, R. (2003), "Wave Conditions for the Design of Ships and Offshore Platforms", *Proceedings of the MAXWAVE Final Meeting*, 8-10 October, Geneva, Switzerland.

2.3.37 Moreira, L. and Guedes Soares, C. (2003), "Training Recurrent Neural Networks with Noisy Data for Manoeuvring Simulation", *Proceedings of the 2nd International Conference on Computer Applications and Information Technology in the Maritime Industries (COMPIT'03)*, 14-17 May, Hamburg, Germany, pp.183-195.

2.3.38 Santos, T.A. and Guedes Soares, C. (2003), "Investigation into the Effects of Shallow Water on Deck on Ship Motions", *Proceedings of the 8th International Conference on the Stability of Ships and Ocean Vehicles (STAB´03)*, 15-19 September, Madrid, Spain.

2.3.39 Schellin, T.E., Beiersdorf, C., Chen, X.-B., Fonseca, N., Guedes Soares, C., Loureiro, A.M., Papanikolau, A.D., de Lucas, A.P. and Ponce Gomez, J.M. (2003), "Numerical and Experimental Investigation to Evaluate Wave Induced Design Loads for Fast Ships", *Proceedings of the Transactions of SNAME Annual Meeting*, Vol. 111, pp. 431-461.

2.3.40 Santos, F.M., Santos, J.M., Duarte, F. and Guedes Soares, C. (2004), "Finite Element Analysis of a 30ft one-off Racer Cruiser Yacht", *Proceedings of the I International Symposium on Yacht Design and Production (MDY'04)*, 25-26 March, Madrid, Spain, pp. 267-278.

2.3.41 Bettencourt, J., Fonseca, N. and Guedes Soares, C. (2004), "A Procedure for the Optimization of the Hydrodynamic Performance of Sailing Yachts Keels", *Proceedings of the 1st International Symposium on Yacht Design and Production (MDY'04)*, 25-26 March, Madrid, Spain, pp. 58-68.

2.3.42 Guedes Soares, C., Pascoal, R., Antão, E.M., Voogt, A. and Buchner, B. (2004), "An Approach to Calculate the Probability of Wave Impact on an FPSO Bow", *Proceedings of the 23rd International Conference on Offshore Mechanics and Arctic Engineering (OMAE´04)*, 20-25 June, Vancouver, Canada, ASME, New York, Paper OMAE2004-51575.

2.3.43 Skourup, J., Sterndorff, M.J., Smith, S.F., Cheng, X., Ahilan, R.V., Guedes Soares, C. and Pascoal, R. (2004), "Model Tests with an FPSO in Design Environmental Conditions", *Proceedings of the 23rd International Conference on Offshore Mechanics and Arctic Engineering (OMAE´04)*, 20-25 June, Vancouver, Canada, ASME, New York, Paper OMAE2004-51618.

2.3.44 Clauss, G.F., Schmittner, C.E., Hennig, J., Guedes Soares, C., Fonseca, N. and Pascoal, R. (2004), "Bending Moments of an FPSO in Rogue Waves", *Proceedings of the 23rd International Conference on Offshore Mechanics and Arctic Engineering (OMAE´04)*, 20-25 June, Vancouver, Canada, ASME, New York, Paper OMAE2004-51504.

2.3.45 Pascoal, R., Guedes Soares, C., Facon, G., Pétrié, F. and Vaché, M. (2004), "Hydrodynamic Analysis and Motions of the Octoplus Platform", *Proceedings of the 23rd International Conference on Offshore Mechanics and Arctic Engineering (OMAE´04)*, 20-25 June, Vancouver, Canada, ASME, New York, Paper OMAE2004-51574.

2.3.46 Ciortan, C., Wanderley, J., Levi. C and Guedes Soares, C. (2004), "Computational Fluid Mechanics Applied to Free-Surface Flows", *Proceedings of the Congress on Computational Methods in Engineering (CMCE´04)*, 31 May-2 June, Lisbon, Portugal.

2.3.47 Ciortan, C., Guedes Soares, C., Wanderley, J. and Levi, C. (2004), "Structured Grids Generation for Computational Fluid Dynamics", *Proceedings of the Congress on Computational Methods in Engineering (CMCE´04)*, 31 May-2 June, Lisbon, Portugal.

2.3.48 Skourup, J., Sterndorff, M.J., Smith, S.F., Cheng, X., Ahilan, R.V., Guedes Soares, C. and Pascoal, R. (2004), "Experimental Study of Loads on an FPSO in Design Environmental Conditions", *Proceedings of the OMAE Specialty Conference on Integrity of Floating Production, Storage & Offloading (FPSO) Systems*, ASME, New York, Paper OMAE-FPSO'04-0069.

2.3.49 Guedes Soares, C., Fonseca, N., Pascoal, R., Clauss, G.F., Schmittner, C.E. and Hennig, J. (2004), "Analysis of wave induced loads on a FPSO due to abnormal waves", *Proceedings of the OMAE Specialty Conference on Integrity of Floating Production, Storage & Offloading (FPSO) Systems*, ASME, New York, Paper OMAE-FPSO'04-0073.

2.3.50 Fonseca, N., Pascoal, R. and Guedes Soares, C. (2004), "Calculation of loads induced by abnormal waves on Ship and FPSO hulls", *Proceedings of the 20th National Congress on Maritime Transport, Shipbuilding and Offshore (SOBENA´04)*, 8-12 November, Rio de Janeiro, Brazil.

2.3.51 Santos, J.M. (2004), "Simplified Analysis of Ship Bending Vibrations", *Annual Proceedings of the Tech*nical *University of Varna, Student Scientific Contributions 2004 (Awarded First Prize of the Scientific Session)*, 29-30 April, Varna, Bulgaria.

2.3.52 Fonseca, N. and Guedes Soares, C., (2004), "Green Water Effects on the Bow of a Containership Advancing in Regular and Irregular Waves", *Proceedings of the 9th International Symposium on Practical Design of Ships and other Floating Structures (PRADS´04)*, 12-17 September, Luebeck-Travemuende, Germany, Vol. 1, pp. 412-419.

2.3.53 Ciortan, C., Guedes Soares, C., Wanderley, J. and Levi, C. (2004), "Calculation of the Flow Around Ship Hulls with a Parallel CFD Code", *International Conference on Parallel (CFD´04)*, 24-27 May, Gran Canaria, Canary Islands, Spain, Parallel Computational Fluid Dynamics - Multidisciplinary Applications.

2.3.54 Guedes Soares, C., Fonseca, N. and Pascoal, R. (2005), "Comparison of Present Wave Induced Load Criteria with Loads Induced by an Abnormal Wave on Marine Structures", *Proceedings of the Rogue Waves 2004*, Olagnon, M. and Prevosto, M. (Eds.), 20-22 October, Brest, France.

2.3.55 Fonseca, N., Guedes Soares, C. and Marón, A. (2005), "Investigation of the Hydrodynamic Characteristics of a Fast-Ferry Advancing in Regular Waves", *Proceedings of the International Conference on Fast Sea Transportation (FAST'05)*, 27-30 June, St. Petersburg, Russia.

2.3.56 Sutulo, S. and Guedes Soares, C. (2005), "Simulation of a Fast Catamaran's Manoeuvring Motion Based on a 6DOF Regression Model", *Proceedings of the International Conference on Fast Sea Transportation (FAST'05),* 27-30 June, St. Petersburg, Russia.

2.3.57 Moreira, L., Fossen, T.I. and Guedes Soares, C. (2005), "Modelling, Guidance and Control of "Esso Osaka" Model", *Proceedings of 16th International Federation of Automatic Control World Congress (IFAC ´05)*, 4-8 July, Prague, Czech Republic.

2.3.58 Fonseca, N., Guedes Soares, C. and Pascoal, R. (2005), "Ship Responses and Structural Loads Induced by Abnormal Wave Conditions", *Proceedings of the International Conference "Design and Operation for Abnormal Conditions III" (RINA)*, 26-27 January, London, UK, pp. 65-75.

2.3.59 Moreira, L. and Guedes Soares, C. (2005), "Manoeuvring Simulation Based on Recurrent Neural Networks", *Proceedings of the 16th International Conference on Hydrodynamics in Ship Design*, 7-10 September, Gdansk, Poland.

2.3.60 Fonseca, N., Guedes Soares, C. and Pascoal, R. (2005), "Global Loads on a FPSO Induced by a Set of Freak Waves", *Proceedings of 24th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´05)*, 12-17 June, Halkidiki, Greece, ASME, New York, Paper OMAE2005-67226.

2.3.61 Fonseca, N. and Guedes Soares, C. (2005), "Seakeeping Performance of Ship in Moderate and Severe Seas", *Proceedings of 2nd International Congress on Mechanical and Electrical Engineering and Marine Industry*, 7-9 October, Varna, Bulgaria.

2.3.62 Fonseca, N., Guedes Soares, C. and Pascoal, R. (2005), "Vertical Bending Moments Induced by a Set of Abnormal Waves on a Containership", *Proceedings of a Conference on Design and Operation for Abnormal Conditions III (RINA)*, London, UK.

2.3.63 Sutulo, S. and Guedes Soares, C. (2006), "A Unified Nonlinear Mathematical Model for Simulating Ship Manoeuvring and Seakeeping in Regular Waves", *Proceedings of the International Conference on Marine Simulation and Ship Manoeuvrability (MARSIM´06)*, 25-30 June, Terschelling, The Netherlands.

2.3.64 Ahmed, Y., Ciortan, C. and Guedes Soares, C. (2006), "Free Surface Flow Simulation around a Wigley Hull Using a Slightly Compressible Flow Formulation and a Two-Phase Fluid Approach", *Proceedings of the 8th International Conference on Marine Sciences and Technologies (BlackSea´06)*, 25-27 September, Varna, Bulgaria.

2.3.65 Bessa Pacheco, M. and Guedes Soares, C. (2006), "GIS Based Ship Routing", *Proceedings of the International Conference on Ship and Shipping Research (NAV´06)*, 21-23 June, Genova, Italy, Vol. II, pp. 5.2.1-5.2.11.

2.3.66 Ciortan, C., Ahmed, Y. and Guedes Soares, C. (2006), "A Study of Boundary Layers for Detached Flows", *Proceedings of the 8th International Conference on Marine Sciences and Technologies (BlackSea ´06)*, 25-27 September, Varna, Bulgaria, pp. 300-304.

2.3.67 Ciortan, C. and Guedes Soares, C. (2006), "A Simulation of the Airflow around Sails with Known Geometry", *Proceedings of the 8th International Conference on Marine Sciences and Technologies (BlackSea ´06)*, 25-27 September, Varna, Bulgaria, pp. 311-315.

2.3.68 Ciortan, C., Wanderley, J. and Guedes Soares, C. (2006), "Free Surface Slow around Ship Hulls Using the Slightly Compressible Flow Formulation", *Proceedings of the 9th Numerical Towing Tank Symposium (NuTTS'06)*, 1-3 October, Le Croisic, França.

2.3.69 Fonseca, N. and Guedes Soares, C. (2006), "Effect of Sway and Yaw Coupling on the Prediction of Resonant Roll Motions", *Proceedings of the 9th International Conference on Stability of Ships and Ocean Vehicles (STAB´06)*, 25-29 September, Rio de Janeiro, Brazil.

2.3.70 Guedes Soares, C., Fonseca, N. and Pascoal, R. (2006), "Characteristics of Abnormal Waves and their Induced Global Load Effects in Marine Structures", *Proceedings of the SNAME Annual Meeting (2006 SNAME Maritime Technology Conference & Expo and Ship Production Symposium)*, 10-13 October, Fort Lauderdale, Florida, USA.

2.3.71 Ribeiro e Silva, S., Fonseca, N. and Guedes Soares, C. (2006), "Performance of a Navy Ship Roll Stabilisation System", *Proceedings of the 9th International Conference on Stability of Ships and Ocean Vehicles (STAB´06)*, 25-29 September, Rio de Janeiro, Brazil.

2.3.72 Sutulo, S. and Guedes Soares, C. (2006), "Numerical Study of Ship Rolling in Turning Manoeuvres", *Proceedings of the 9th International Conference on Stability of Ships and Ocean Vehicles (STAB´06)*, 25-29 September, Rio de Janeiro, Brazil.

2.3.73 Santos, T.A., Fonseca, N. and Castro, F. (2006), "Stability Characteristics of an Early XVII Century Nau", *Proceedings of the 9th International Conference on Stability of Ships and Ocean Vehicles (STAB´06)*, 25-29 September, Rio de Janeiro, Brazil.

2.3.74 Fonseca, N., Pascoal, R. and Guedes Soares, C. (2006), "Global Structural Loads Induced by Abnormal Waves and Design Storms on a FPSO", *Proceedings of the 25th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´06)*, 4-9 June, Hamburg, Germany, ASME, New York, Paper OMAE2006-92505.

2.3.75 Fonseca, N., Antunes, E. and Guedes Soares, C. (2006), "Whipping Response of Vessels with Large Amplitude Motions", *Proceedings of the 25th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´06)*, 4-9 June, Hamburg, Germany, ASME, New York, Paper OMAE2006-92412.

2.3.76 Geoffroy, C., Petrié, F., Vaché, M., Mitchell, K., Guedes Soares, C., Pascoal, R., Cappoen L. and Ival, N. (2006), "OCTOPLUS, a New Generation of FPSO for Deepwater - Actual Project Status by the End of a Three Years Development Study Today", *Proceedings of the 25th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´06)*, 4-9 June, Hamburg, Germany, ASME, New York, Paper OMAE2006-92501.

2.3.77 Fonseca, N., Guedes Soares, C. and Pascoal, R. (2007), "Influence of FPSO Length on the Global Loads Induced by Abnormal Waves", *Proceedings of the 10th International Symposium on Practical Design of Ships and Other Floating Structures (PRADS´07)*, 30 September - 5 October, Houston, Texas, USA.

2.3.78 Sutulo, S. and Guedes Soares, C. (2007), "An Algorithm for Consistent Linearization of Ship Manoeuvring Mathematical Models", *Conference on Control and Applications in Marine Systems*, 19-21 September, Bol, Croatia.

2.3.79 Fonseca, N., Pascoal, R. and Guedes Soares, C. (2007), "Probability Distributions of Vertical Bending Moments on a FPSO in Abnormal Wave Sea States", *Proceedings of the 26th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´07)*, 10-15 June, San Diego, USA, ASME, New York, Paper OMAE2007-29753.

2.3.80 Ciortan, C., Guedes Soares, C. and Wanderley, J. (2007), "Assessment of Free Surface Treatment Techniques and Turbulence Models Influence using the Slightly Compressible Flow Simulation", *Proceedings of the 26th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´07)*, 10-15 June, San Diego, USA, ASME, New York, Paper OMAE2007-29752.

2.3.81 Ciortan, C., Wanderley, J. and Guedes Soares, C. (2007), "An Assessment of the Boundary Conditions for Free Surface Simulations Using An Interface-Capturing Method", *Proceedings of the 3rd International Workshop on Applied Offshore Hydrodynamics* 17-19 October, Rio de Janeiro, Brazil.

2.3.82 Moreira, L. and Guedes Soares, C. (2008), "Autonomous Underwater Vehicle Control in Presence of Waves", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-57927.

2.3.83 Sutulo, S. and Guedes Soares, C. (2008), "Simulation of the Hydrodynamic Interaction Forces in Close-Proximity Manoeuvring", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008- 57938.

2.3.84 Ciortan, C., Guedes Soares, C. and Wanderley, J. (2008), "Free Surface Flow Around Ship Hulls Using an Interface-Capturing Method", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, 2008, Estoril, Portugal, ASME, New York, Paper OMAE2008- 57987.

2.3.85 Pessoa, J., Fonseca, N. and Guedes Soares, C. (2008), "Hydrodynamic Interaction and Drift Forces on a Rectangular Barge and Modified Wigley Hull Arranged Side-by-Side", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008- 57943.

2.3.86 Fonseca, N., Pascoal, R., Marinho, J. and Morais, T. (2008), "Analysis of Wave Drift Forces on a Floating Wave Energy Converter", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-57941.

2.3.87 Ribeiro e Silva, S. and Guedes Soares, C. (2008), "Non-Linear Time Domain Simulation of Dynamic Instabilities in Longitudinal Waves", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-57973.

2.3.88 Taveira Pinto, F., Veloso Gomes, F., Rosa Santos, P., Guedes Soares, C., Fonseca, N., Alfredo Santos, J, Paulo Moreira, A., Costa, P. and Brógueira Dias, E. (2008), "Analysis of the Behavior of Moored Tankers", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-58013.

2.3.89 Sutulo, S. and Guedes Soares, C. (2008), "A Generalized Strip Theory for Curvilinear Motion in Waves", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-57936.

2.3.90 Fonseca, N., Guedes Soares, C. and Pessoa, J. (2008), "Calculation of Second Order Slowly Varying Drift Forces on a FLNG Accounting for Difference Frequency Components", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-57942.

2.3.91 Moreira, L., Santos, F., Mocanu, A., Liberato, M., Pascoal, R. and Guedes Soares, C. (2008), "Instrumentation Used on Guidance, Control and Navigation of a Ship Model", *Proceedings of the 8th Portuguese Conference on Automatic Control (CONTROLO'08)*, 21-23 July, University of Trás-os-Montes and Alto Douro, Vila Real, Portugal.

2.3.92 Rosa Santos, P., Veloso Gomes, F., Taveira Pinto, F., Guedes Soares, C., Fonseca, N., Alfredo Santos, J., Paulo Moreira, A., Costa, P. and Brógueira Dias, E. (2008), "Physical Model Study of the Behaviour of an Oil Tanker Moored at a Jetty", *Proceedings on the 2nd International Conference on the Application of Physical Modelling to Port and Coastal Protection - CoastLab´08"*, 2-5 July, Bari, Italy.

2.3.93 Uğurlu B. and Guedes Soares, C., (2008), "Application of the Fourier-Kochin Theory to the Hydroelastic Analysis of Stationary Floating Structures", *Proceedings of the TEAM 2008*, Ergin, A. (Ed.), 6-9 October, Istanbul, Turkey, pp. 158-166.

2.3.94 Fonseca, N., Pessoa, J., Pascoal, R., Morais, T. and Dias, R., (2008), "Calculation of maximum pressure distributions for structural design of a floating wave energy converter", *Proceedings of the 2nd International Conference on Ocean Energy (ICOE´08)*, 15-17 October, Brest, France.

2.3.95 Castro, F., Fonseca, N. and Santos, T. (2008), "Sailing the Pepper Wreck", *Edge of Empire, Proceedings of the Symposium held at the 2006 Society for Historical Archaeology Annual Meeting Sacramento, California*, Castro, F. and Custer, K (Eds.), Lisboa.

2.3.96 Castro, F., Fonseca, N., Loureiro, R. and Santos, T. (2008), "The Pepper Wreck – Nossa Senhora dos

Mártires, 1606: Update on the virtual Reconstruction of a Portuguese India Nau", *Proceedings of the XIV International Reunion for the History of Nautical Science*, 23-25 October, Coimbra, Portugal.

2.3.97 Ferrant, P., Downie, M., Fernandes, A.C., Fonseca, N., Hong, Sa-H., Baarholm, R., Nagata, S., de Wilde, J. and Yang, J. (2008), "The Ocean Engineering Committee - Final Report and Recommendations to the 25th ITTC", *Proceedings of the 24th ITTC*, 14-20 September, Fukuoka, Japan, Vol. I, pp. 263-324.

2.3.98 Castro, F. and Fonseca, N. (2008), "Onboard a SJB2 ship (galleon) 'The Pepper Wreck" (in Spanish), *Separata de Cuadernos de Estudios Borjanos, Centro de Estudios Borjanos, Institución Fernando el Católico*, Borja, Spain.

2.3.99 Rosa Santos, P., Veloso Gomes, F., Taveira Pinto, F., Alfredo Santos, J., Guedes Soares, C., Fonseca, N., Paço. A., Paulo Moreira, A., Costa, P., Malheiros, P. and Brógueira Dias, E. (2009), "Influence of the use of mooring line pretension on the behaviour of a moored oil tanker", *Proceedings of International Conference in Ocean Engineering (ICOE´09)*, 1-5 February, Chennai, India.

2.3.100 Pessoa, J., Fonseca, N. and Guedes Soares, C. (2009), "Drift Forces on a floating body of simple geometry due to second order interactions between pairs of harmonics with different frequencies", *Proceedings of the 28th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´09)*, 31 May-20 June, Honolulu, Hawaii, ASME, New York.

2.3.101 Santos, T.A., Dupla, P. and Guedes Soares, C. (2009), "Numerical Simulation of the Progressive Flooding of a Box-Shaped Barge", *Proceedings of the 10th International Conference on Stability of Ships and Ocean Vehicles (STAB´09)*, 22-26 June, St. Petersburg, Russia, pp. 281-294.

2.3.102 Sutulo, S. and Guedes Soares, C. (2009), "Computation of Hydrodynamic Loads on a Ship Manoeuvring in Regular Waves", *Proceedings of the 10th International Conference on Stability of Ships and Ocean Vehicles (STAB´09)*, 22-26 June, St. Petersburg, Russia, pp. 609-620.

2.3.103 Ribeiro e Silva, S. and Guedes Soares, C. (2009), "Parametric Rolling of a Container Vessel in Longitudinal Waves", *Proceedings of the 10th International Conference on Stability of Ships and Ocean Vehicles (STAB´09)*, 22-26 June, St. Petersburg, Russia, pp. 597-608.

2.3.104 Ahmed, Y. and Guedes Soares, C. "Simulation of the Flow around the Surface Combatant DTMB Model 5415 at Different Speeds", *Proceedings of the 13th Congress of International Maritime Association of the Mediterranean (IMAM´09)*, 12-15 October, Istanbul, Turkey, pp. 307-314.

2.3.105 Mantari, J.L., Ribeiro e Silva, S. and Guedes Soares, C. (2009), "Intact Stability of Fishing Vessels under Operational Loading Conditions", *Proceedings of the 13th Congress of International Maritime Association of the Mediterranean (IMAM´09)*, 12-15 October, Istanbul, Turkey.

2.3.106 Perera, L.P., Carvalho, J.P. and Guedes Soares, C. (2009), "Decision Making System for the Collision Avoidance of Marine Vessel Navigation based on COLREGs Rules and Regulations", *Proceedings of the 13th Congress of International Maritime Association of the Mediterranean (IMAM´09)*, 12-15 October, Istanbul, Turkey.

2.3.107 Tello, M., Ribeiro e Silva, S. and Guedes Soares, C. (2009), "Fishing Vessels Responses in Waves Under Operational Loads", *Proceedings of the XXI Naval Architecture Pan-American Conference (COPINAVAL´09)*, 18-22 October, Montevideo, Uruguay.

2.3.108 Turk, A., Ribeiro e Silva, S., Guedes Soares, C. and Prpic-Orsic, J. (2009), "An investigation of dynamic instabilities caused by parametric rolling of C11 class containership", *Proceedings of the 13th Congress of International Maritime Association of Mediterranean (IMAM´09)*, 12-15 October, Istanbul, Turkey.

2.3.109 Mantari, J.L., Ribeiro e Silva, S. and Guedes Soares, C. (2009), "Variations on transverse stability of fishing vessels due to fishing gear pull and waves", *Proceedings of the XXI Naval Architecture Pan-American Conference (COPINAVAL´09)*, 18 - 22 October, Montevideo, Uruguay.

2.3.110 Ribeiro e Silva, S., Tello, M. and Guedes Soares, C. (2009), "Seakeeping Performance of Fishing Vessels under Operational Loads", *Proceedings of the 13th Congress of International Maritime Association of the Mediterranean (IMAM´09)*, 12-15 October, Istanbul, Turkey.

2.3.111 Nielsen, F.G., Argyriadis, K., Fonseca, N., Le Boulluec, M., Liu, P., Suzuki, H., Sirkar, J., Tarp-Johansen, N.J., Turnock, S.R., Waegter, J. and Zong. Z. (2009), "Specialist Committee V.4 – Ocean, Wind and Wave Energy Utilization", *Proceedings of the 17th International Ship and Offshore Structures Congress (ISSC)*, Jang. C.D. and Hong, S.Y. (Eds.), Seoul National University, 16-21. August, Vol. 2, pp. 201-257.

2.3.112 Ashe, G., Cheng, F., Kaeding, P., Kaneko, H., Dow, R., Broekhuijsen, J., Pegg, N., Fredriksen, A., de Francisco, F.V., Leguen, J.F., Hess, P., Gruenitz, L., Jeon, W., Kaneko, H., Ribeiro e Silva, S. and Sheinberg, R. (2009), "Committee V.5 - Naval Ship Design", *Proceedings of the 17th International Ship and Offshore Structures Congress (ISSC)*, Jang. C.D. and Hong, S.Y. (Eds.), Seoul National University, 16-21. August, Vol. 2, pp. 259-307.

2.3.113 Wnek, A.D., Paço, A., Zhou, X. and Guedes Soares, C. (2009), "Numerical and Experimental Analysis of the Wind Forces Acting on LNG Platform", *Proceedings of the 13th Congress of International Maritime Association of the Mediterranean (IMAM´09)*, 12-15 October, Istanbul, Turkey.

2.3.114 Sutulo, S., Paço, A. and Guedes Soares, C. (2009), "Full-Scale Observations of Berthing and Unberthing Processes of Fast Displacement Catamarans", *Proceedings of the 10th International Conference on Fast Sea Transportation (FAST)*, 31 Oct. - 6 Nov., Athens, Greece, pp. 491-503.

2.3.115 Pessoa, J., Fonseca, N., Guedes Soares, C., Boullec, M.L., Ohana, J., Mavrakos, S., Mazarakos, T., Jensen, B. and Kirkegaard, J. (2009), "Experimental Study of the Slowly varying wave Exciting drift forces on a body of Simple Geometry", *Proceeding of the HYDRALAB III Consortium*, 2-4. December, Hannover, Germany.

2.3.116 Sutulo, S. and Guedes Soares, C., (2009), "Simulation of Close-Proximity Manoeuvers using an Online 3D Potential Flow Method", *International Conference on Marine Simulation and Ship Manoeuvrability (MARSIM 2009)*, 17-20 August, Panama City, Panama.

2.3.117 Ribeiro e Silva, S., Guedes Soares, C., Turk, A., Prpić-Oršić, J. and Uzunoglu, E. (2010), "Experimental Assessment of the Parametric Rolling on a C11 Class Containership", *Proceeding of the HYDRALAB III Joint User Meeting*, 2-4 February, Hannover, Germany, pp. 265-270.

2.3.118 Zhou, X., Sutulo, S. and Guedes Soares, C. (2010), "Computation of Ship-to-Ship Interaction Forces by a 3D Potential Flow Panel Method in Finite Water Depth", *Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE´10)*, 6-11 June, Shanghai, China, ASME, New York, Paper OMAE2010-20497.

2.3.119 Pessoa, J., Fonseca, N. and Guedes Soares, C. (2010), "Experimental and Numerical Study of the Depth Effect on the First Order and Slowly Varying Motions of a Floating Body in Bichromatic Waves", *Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE´10)*, 6-11 June, Shanghai, China, ASME, New York, Paper OMAE2010-21188.

2.3.120 Luo, HB., Hu, J. and Guedes Soares, C. (2010), "Numerical Simulation of Hydro-elastic Responses of Flat Stiffened Panels under Slamming Loads", *Proceedings of the 29th International Conference on Ocean, Offshore and Arctic Engineering (OMAE´10)*, 6-11 June, Shanghai, China, ASME, New York, Paper OMAE2010-20027.

2.3.121 Perera, L.P., Carvalho, J.P. and Guedes Soares, C. (2010), "Smooth transition between fuzzy regions to overcome decision failures in the boundary intersections of fuzzy membership functions: A case study of collision avoidance in ocean navigation", *Proceedings of the Uncertainty and Robustness in Planning and Decision Making (URPDM 2010)*, 15-17 April, Coimbra, Portugal.

2.3.122 Fonfach, J.M.A. and Guedes Soares, C. (2010), "Improving the Resistance of a series 60 vessel with a CFD Code", *Proceedings of the V European Conference on Computational Fluid Dynamics (CFD 2010)*, Pereira, J.C.F and Sequeira, A. (Eds.), 14-17 June, Lisbon, Portugal.

2.3.123 Wnek, A.D., Paço, A., Zhou, X. and Guedes Soares, C. (2010), "Numerical and Experimental Analysis of the Wind Forces Acting on LNG Carrier", *Proceedings of the V European Conference on Computational Fluid Dynamics (CFD 2010)*, Pereira, J.C.F and Sequeira, A. (Eds.), 14-17 June, Lisbon, Portugal.

2.3.124 Matulja, D., Sportelli, M., Prpić-Oršić, J. and Guedes Soares, C. (2010), "Methods for Estimation of Ships Added Resistance in Regular Waves", *Proceedings of the 19th Symposium on Theory and Practice of Shipbuilding (SORTA 2010)*, 7-9 October, Split, Lumbarda, Croatia.

2.3.125 Bhattacharjee, J. and Guedes Soares, C. (2010), "Wave interaction with a floating rectangular box near a vertical wall with step type bottom topography", *Proceedings of the 9th International Conference on Hydrodynamics (ICHD 2010)*, 11-15 October, Shanghai, China, pp. 91-96.

2.3.126 Fonseca, N., Ribeiro e Silva, S., Pessoa, J. (2010), "Numerical modelling and assessment of the UGEN floating Wave Energy Converter", *Proceedings of the William Froude Conference - "Advances in Theoretical and Applied Hydrodynamics, Past and Future"*, 24-25 November, Portsmouth, UK.

2.3.127 Perera, L.P., Guedes Soares, C. (2010), "Laser Measurement System based manoeuvring Target tracking formulated by Competitive Neural Networks", *Proceedings of the Second International Conference on Adaptive and Self-Adaptive Systems and Applications (ADAPTIVE 2010)*, 21-26 November, Lisbon, Portugal, pp. 84-90.

2.3.128 Perera, L.P., Guedes Soares, C. (2010), "Ocean Vessel Trajectory estimation and prediction based on Extended Kalman Filter", *Proceedings of the Second International Conference on Adaptive and Self-Adaptive Systems and Applications (ADAPTIVE 2010)*, 21-26 November, Lisbon, Portugal, pp. 14-20.

2.3.129 Perera, L.P., Carvalho, J.P., Guedes Soares, C. (2010), "Fuzzy-logic based collisions avoidance parallel decision formulation for Ocean Navigational System", *Proceedings of the IFAC Conference on Control Applications in Marine Systems (CAMS 2010)*, 15-17 Sept., Rostock-Warnemünde, Germany. pp. 295-300.

2.3.130 Perera, L.P., Carvalho, J.P. and Guedes Soares, C. (2010), "Bayesian Network based sequential collision avoidance action execution for Ocean Navigational System", *Proceedings of the IFAC Conference on Control Applications in Marine Systems (CAMS 2010)*, 15-17 Sept., Rostock-Warnemünde, Germany, pp. 301-306.

2.3.131 Datta, R. and Guedes Soares, C. (2010), "NURBS Based Scheme for Automatic Quadrilateral Mesh Generation for FE and BIEM Analysis", *Proceedings of the 11th International Symposium on Practical Design of Ships and Other Floating Structures (PRADS 2010)*, 19-24 Sept., Rio de Janeiro, Brazil, pp. 815-822.

2.3.132 Sutulo, S. and Guedes Soares, C. (2010), "On Applicability of Mathematical Models based on Fractional Calculus to Ship Dynamics", *Proceedings of the 5th IFAC Symposium on Mechatronic Systems (CAMS 2010)*, 15-17 Sept., Rostock-Warnemünde, Germany, pp. 225-230.

2.3.133 Ribeiro e Silva, S., Vasquez, G.A., Guedes Soares, C. and Marón, A. (2011), "The Stabilizing Effect of U-Tanks as Passive Anti-Rolling Devices", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper OMAE0211-50323.

2.3.134 Ribeiro e Silva, S., Uzunoglu, E., Guedes Soares, C., Marón, A. and Gutierrez, C. (2011), "Investigation of the Hydrodynamic Characteristics of Assymetric Cross-Sections Advancing in Regular Waves", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper OMAE2011-50322.

2.3.135 Pessoa, J., Fonseca, N., Rajendran, S. and Guedes Soares, C. (2011), "Experimental investigation of the first and second order wave exciting forces on a restrained body in long crest irregular waves", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper OMAE2011-50318.

2.3.136 Rajendran, S., Fonseca, N., Guedes Soares, C., Clauss, G.F. and Klein, M. (2011), "Time Domain Comparison with Experiments for Ship Motions and Structural Loads of a Containership in Abnormal Waves", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper: OMAE2011-50316.

2.3.137 Perera, L.P., Oliveira, P. and Guedes Soares, C. (2011), "Dynamic Parameter Estimation of a Nonlinear Vessel Steering Model of Ocean Navigation", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper: OMAE2011-50249.

2.3.138 Perera, L.P. Guedes Soares, C. and Oliveira, P. (2011), "Collaborated and Constrained Neural-EKF Algorithm for the Vessel Traffic Monitoring and Information System", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper: OMAE2011-50248.

2.3.139 Luo, HB., Wang, H. and Guedes Soares, C. (2011), "Comparative Study of Hydro-elastic Impact for one free-drop wedge with stiffened panels by experimental and explicit finite element methods", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper: OMAE2011-49209.

2.3.140 Fonfach, J.M.A., Sutulo, S. and Guedes Soares, C. (2011), "Numerical study of ship-to-ship interaction forces on the basis of various flow models", *Manoeuvring in Shallow & Coastal Waters (MSCW 2011)*, 18-20 May, Trondheim, Norway.

2.3.141 Ciortan, C. and Fonseca, N. (2011), "Numerical Simulations of the Sails of a XVI Century Portuguese Nau", *International Conference on Computational Methods in Marine Engineering (Marine 2011)*, L. Eça, E. Oñate J. García P. Bergan and T. Kvamsdal (Eds.), 28-30 Sept, Lisbon, Portugal, pp. 1-12.

2.3.142 Moreira, L. and Guedes Soares, C. (2011), "Application of Neural Networks to Model Catamaran Manoeuvres", *Proceedings of the International Conference on High Performance Marine Vessels (HSMV 2011)*, 25-27 May, Naples, Italy.

2.3.143 Vasquez, G.A., Fonseca, N. and Guedes Soares, C. (2011), "Analysis of vertical motions and bending moments on a Bulk Carrier by model tests and numerical predictions", *Pan-American Congress in Naval Architecture, Maritime Transport and Engineering (COPINAVAL XXII)*, 27-30 September, Buenos Aires, Argentina.

2.3.144 Bagbanci, H., Karmakar, D. and Guedes Soares, C. (2011), "Comparative study on the coupled dynamic analysis of spar type and barge type floating wind turbine", *1st International Conference on Naval Architecture and Maritime (INT-NAM 2011)*, 24-25 October, Istanbul, Turkey.

2.3.145 Bagbanci, H., Karmakar, D. and Guedes Soares, C. (2011), "Dynamic analysis of spar type floating offshore wind turbine", *Coastal and Maritime Mediterranean Conference*, 22-24 November, Tangiers, Morocco.

2.3.146 Bhattacharjee, J. and Guedes Soares, C. (2011), "Vertical porous membrane barrier for coastal structure near a wall", *Coastal and Maritime Mediterranean Conference*, 22-24 November, Tangiers, Morocco.

2.3.147 Karmakar, D. and Guedes Soares, C. (2011), "Wave interaction with moored floating elastic plate in the presence of end wall", *Coastal and Maritime Mediterranean Conference*, 22-24 November, Tangiers, Morocco.

2.3.148 Perera, L.P., Carvalho, J.P. and Guedes Soares, C. (2011), "Mamdani type fuzzy inference failures in navigation", *Proceedings of the IEEE 9th International Conference on Industrial Informatics (INDIN 2011)*, 26-29 July, Caparica, Portugal.

2.3.149 Uzunoglu, E., Ribeiro e Silva, S., Mantari, J.L. and Guedes Soares, C. (2011), "Prevention of Parametric Rolling Onboard Fishing Vessels", *1st International Conference on Naval Architecture and Maritime (INT-NAM 2011)*, 24-25 October, Istanbul, Turkey.

2.3.150 Varela, J.M. and Guedes Soares, C. (2011), "Interactive Simulation of Ship Motions in Random Seas based on Real Wave Spectra", *Proceedings of International Conference on Computer Graphics Theory and Applications (GRAPP2011)*, 5-7 March, Vilamoura, Portugal.

2.3.151 Sutulo, S. and Guedes Soares, C. (2012), "Hydrodynamics Internaction Forces on Ship Hulls Equipped with Propulsors", *Proceedings of the 31st Internatinal Conference on Ocean, Offshore and Arctic Engineering (OMAE 2012)*, 1-6 Jul., Rio de Janeiro, Brazil.

2.3.152 Clauss, G.F., Klein, M., Guedes Soares, C. and Fonseca, N. (2012), "Response Based Identification of Critical Wave Scenarios", *Proceedings of the 31st Internatinal Conference on Ocean, Offshore and Arctic Engineering (OMAE 2012)*, 1-6 Jul., Rio de Janeiro, Brazil.

2.3.153 Ribeiro e Silva, S., Vasquez, G., Guedes Soares, C. and Marón, A. (2012), "The Stabilizing Effect of U-Tanks as Passive and Controlled Anti-Rolling Devices", *Proceedings of the 31st Internatinal Conference on Ocean, Offshore and Arctic Engineering (OMAE 2012)*, 1-6 Jul., Rio de Janeiro, Brazil.

2.3.154 Nava, V., Rajic, M. and Guedes Soares, C. (2012), "Effects of Water Depth on the Dynamics of a Moored Buoy under Irregular Waves", *20th Symposium on Theory and Practice of Shipbuilding (SORTA 2012)*, 27-29 September, Zagreb, Croatia.

2.3.155 Turk, A., Prpiæ-Oršiæ, J. and Guedes Soares, C. (2012), "A study on Damping Contribution to the Prediction of Parametric Rolling in Regular Waves", *20th Symposium on Theory and Practice of Shipbuilding (SORTA 2012)*, 27-29 September, Zagreb, Croatia.

2.3.156 Perera, L.P. and Guedes Soares, C. (2012), "Vector-product based Collision Estimation and Detection in e-Navigation", *9th IFAC Conference on Manoeuvring and Control of Marine Craft (MCMC 2012)*, 19-21 September, Arenzano, Italy.

2.3.157 Perera, L.P. and Guedes Soares, C. (2012), "Sliding Mode Controls in Partial Feedback Linearization applied Unstable Ship Steering", *9th IFAC Conference on Manoeuvring and Control of Marine Craft (MCMC 2012)*, 19-21 September, Arenzano, Italy.

2.3.158 Viallon, M., Sutulo, S. and Guedes Soares, C. (2012), "On the Order of Polynomial Regression Mdoels for Manoeuvring Forces", *9th IFAC Conference on Manoeuvring and Control of Marine Craft (MCMC 2012)*, 19-21 September, Arenzano, Italy.

2.3.159 Perera, L.P., Moreira, L., Santos, F.P., Ferrari, V., Sutulo, S. and Guedes Soares, C. (2012), "A Navigation and Control Platform for Real-Time Manoeuvring Tests of Autonomous Ship Models", *9th IFAC Conference on Manoeuvring and Control of Marine Craft (MCMC 2012)*, 19-21 September, Arenzano, Italy.

2.3.160 Pietra, L., Fonseca, N. and Pessoa, J. (2012), "Numerical modelling of the turbine power take off for the UGEN floating wave energy converter", *4th International Conference on Ocean Energy (ICOE 2012)*, 17-19 October, Dublin, Ireland.

2.3.161 Rodrigues, S., Fonseca, N. and Santos, J.A. (2012), "Análise do comportamento do navio no mar por um método dos painéis simplificado e pela teoria das faixas", *IV Conferência Nacional em Mecânica dos Fluídos, Termodinâmica e Energia*, 28-29 May, Lisboa, Portugal.

2.3.162 Ciortan, C. and Fonseca, N. (2012), "Resistance and Aerodynamic Performance Assessment for a Portuguese Indiaman of XVIth Century", *Numerical Towing Tank Symposium (NUTTS'12)*, 7-9 October, Cortona, Italy.

2.3.163 Tomasicchio, G.R., Armenio, E., D'Alessandro, F., Fonseca, N., Mavrakos, S.A., Penchev, V., Schüttrumpf, H., Voutsinas, V., Kirkegaard, J. and Jensen, P.M. (2012), "Design of a 3D physical and numerical experiment on floating off-shore wind turbines", *International Conference on Coastal Engineering*, 29-30 June, Santander, Spain.

2.3.164 Luo, W.L., Fu, B., Guedes Soares, C. and Zou, Z. (2013), "Robust control for ship course-keeping based on support vector machines, particle swarm optimation and L2-Gain", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

2.3.165 Luo, W.L., Guedes Soares, C. and Zou, Z. (2013), "Parameter Identification of Ship Manoeuvring Model based on particle swarm optimization and support vector machines", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

2.3.166 Nava, V. Bagbanci, H., Guedes Soares, C. and Arena, F. (2013), "On the response of a spar floating wind turbine under the occurrence of extreme events", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

2.3.167 Nava, V., Rajic, M. and Guedes Soares, C. (2013), "Effects of the mooring line configuration on the dynamics of a point absorber", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

2.3.168 Bagbanci, H., Karmakar, D. and Guedes Soares, C. (2013), "Comparison of spar and semi-submersible floater concepts of offshore wind turbines using long-term analysis", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

2.3.169 Karmakar, D. and Guedes Soares, C. (2013), "Propagation of gravity waves past multiple bottom standing barriers", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

2.3.170 Perera, L.P., Ferrari, V., Santos, F.P., Hinostroza, M.A. and Guedes Soares, C. (2013), "Experimental results on collision avoidance of autnomous ship manoeuvres", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

2.3.171 Karmakar, D., Bagbanci, H. and Guedes Soares, C. (2013), "Joint probability distribution of extreme loads of spar and semi-sibmersible floating wind turbines using the Environmental Contour Method", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

2.3.172 Turk, A., Prpiæ-Oršiæ, J. and Guedes Soares, C. (2013), "Parametric rolling simulations of container ships", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

2.3.173 Schay, J., Bhattacharjee, J. and Guedes Soares, C. (2013), "Numerical modelling of a heaving point absorber in front of a vertical wall", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

2.3.174 Rezanejad, K., Bhattacharjee, J. and Guedes Soares, C. (2013), "Analytical and Numerical Study of Nearshore Multiple Oscillating Water Columns", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

2.3.175 Vasquez, G., Fonseca, N. and Guedes Soares, C. (2013), "Experimental and Numerical Extreme Motions and Vertical Bending Moments Induced by Abnormal Waves on a Bulk Carrier", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

2.3.176 Rajendran, S., Fonseca, N. and Guedes Soares, C. (2013), "Estimation of Short Term Probability Distributions of Wave Induced Loads Acting on a Cruise Vessel in Extreme Seas", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

2.3.177 Rodrigues, S., Nascimento, M.F., Fonseca, N., Santos, J.A. and Neves, C.F. (2013), "Propagation of waves generated by ships over a sloping sea bottom" (in Portuguese), *Congreso de Metodos Numericos en Ingenieria (SEMNI)*, 25-28 June, Bilbao, Spain.

2.3.178 Rodrigues, S., Nascimento, M.F., Fonseca, N., Santos, J.A. and Neves, C.F. (2013), "Propagation over a sloping bottom of waves generated by ships", *V International Conference on Computational Methods in Marine Engineering (MARINE 2013)*, 29-31 May, Hamburg, Germany.

2.3.179 Cerveira, F., Fonseca, N. and Pascoal, R. (2013), "Mooring System Influence on the Efficiency of Wave Energy Converters", *10th European Wave and Tidal Energy Conference (EWTEC 2013)*, 2-5 September, Aalborg, Denmark.

2.3.180 Rodrigues, S., Nascimento, M.F., Fonseca, N., Santos, J.A. and Neves, C.F. (2013), "Numerical simulation study on the propagation of waves generated by vessels using a modified version of FUNWAVE", *International Short Course/Conference on Applied Coastal Research (VI SCACR)*, 4-7 June, Lisbon, Portugal.

2.3.180a Bagbanci, H., Shah, A.S. and Guedes Soares, C. (2013), "Stationary blade CFD analysis on aerofoil of offshore floating wind turbine", *32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

2.3.181 Robertson, A., Jonkman, J., Vorpahl, F., Popko, W., Qvist, J., Froyd, L., Chen, X., Azcona, J., Uzunoglu, E., Guedes Soares, C., Luan, C., Yutong, H., Pengcheng, F., Yde, A., Larsen, T., Nichols, J., Buils, R., Lei, L., Nygaard, T.A., Manolas, D., Heege, A., Vatne, S.R., Ormberg, H., Duarte, T., Godreau, C., Hansen, H.F., Nielsen, A.W., Riber, H., Le Cunff, C., Abele, R., Beyer, F., Yamaguchi, A., Jung, K.J., Shi, W., Park, H., Alves, M. and Guerinel, M. (2014), "Offshore code comparison collaboration, Continuation within IEA wind Task 30: Phase II results regarding a floating semisubmersible wind system", *Proceedings of the 33rd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2014)*, San Francisco, CA, USA, 8-13 June, Paper: OMAE2014-24040.

2.3.182 Rajendran, S., Fonseca, N. and Guedes Soares, C. (2014), "Analysis of vertical bending moment on an ultra large containership induced by extreme head seas", *Proceedings of the 33rd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2014)*, San Francisco, CA, USA, 8-13 June, Paper: OMAE2014-24062.

2.3.183 Rajendran, S., Fonseca, N. and Guedes Soares, C. (2014), "Prediction of ship responses in large amplitude waves using a body nonlinear time domain method with 2nd order Froude-Krylov pressure", *Proceedings of the 33rd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2014)*, San Francisco, CA, USA, 8-13 June, Paper: OMAE2014-24698.

2.3.184 Papanikolaou, A., Zaraphonitis, G., Bitner-Gregersen, E., Shigunov, V., El Moctar, O., Guedes Soares, C., Reddy, D.N. and Sprenger, F. (2014), "Energy Efficient Safe Ship Operation (SHOPERA)", *RINA Conference on Influence of EEDI on Ship Design*, 24-25 September, London, UK.

2.3.185 Datta, R., Guedes Soares, C. and Rodrigues, J.M. (2014), "A time domain panel method for the prediction of nonlinear hydrodynamic forces", *Proceedings of the 11th International Conference on Hydrodynamics (ICHD 2014)*, 19-24 October, Singapore, Singapore.

2.3.186 Rajendran, S., Fonseca, N. and Guedes Soares, C. (2015), "Calculation of vertical bending moment acting on an ultra large containership in large amplitude waves", *34th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2015)*, 31 May-5 Jun, St. John's, NL, Canada, paper: OMAE2015-42405.

2.3.187 Rajendran, S., Fonseca, N. and Guedes Soares, C. (2015), "Short term distribution of loads acting on a cruise vessel in extreme seas using a body nonlinear time domain with second order Froude-Krylov pressure", *34th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2015)*, 31 May-5 Jun, St. John's, NL, Canada, paper: OMAE2015-42406.

2.3.188 Karmakar, D. and Guedes Soares, C. (2015), "Extreme response prediction of offshore wind turbine using inverse reliability technique", *34th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2015)*, 31 May-5 Jun, St. John's, NL, Canada, paper: OMAE2015-42072.

2.3.189 Karmakar, D. and Guedes Soares, C. (2015), "Wave motion control over submerged horizontal plates", *34th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2015)*, 31 May-5 Jun, St. John's, Newfoundland, Canada, paper: OMAE2015-42070.

2.3.190 Siow, C.L., Koto, J., Yasukawa, H., Matsuda, A., Terada, D., Guedes Soares, C. and Samad, M.Z.M. (2015), "Experiment study on hydrodynamics characteristic of Rounded-Shape FPSO", *1st Conference on Ocean, Mechanical and Aerospace - Science and Engineering*, 19-20 November, Pekan Baru, Indonesia.

2.3.191 Sutulo, S. and Guedes Soares, C. (2015), "Offline system identification of ship manoeuvring mathematical models with a global optimization algorithm", *Proceedings of the MARSIM 2015 Conference*, 8-11 September, Newcastle-upon-Tyne, United Kingdom.

2.3.192 Sinha, A., Karmakar, D. and Guedes Soares, C. (2015), "Shallow water effects on a hydraulic power take-off WEC with reactive control", *8th Offshore Wind and other marine renewable Energies in Mediterranean and European Seas (OWEMES 2015)*, 7-9 October, Rome, Italy.

2.3.193 Sinha, A., Karmakar, D. and Guedes Soares, C. (2015), "Hydrodynamic behaviour of concentric arrays of point absorbers attached to a bottom-mounted platform", *8th Offshore Wind and other marine renewable Energies in Mediterranean and European Seas (OWEMES 2015)*, 7-9 October, Rome, Italy.

2.3.194 Sinha, A., Karmakar, D. and Guedes Soares, C. (2015), "Hydrodynamic analysis of array of point absorbers combined with a floating platform", *11th European Wave and Tidal Energy Conference (EWTEC2015)*, 6-11 September, Nantes, France, pp. 09D1-1-1 - 09D1-1-10.

2.3.195 Tarbiat, S. and Guedes Soares, C. (2015), "Wind shear effect on aerodynamic performance of wind turbine", *3rd Symposium on OpenFOAM in Wind Energy*, 15-17 June, Politecnico di Milano, Italy.

2.3.196 Papanikolaou, A., Zaraphonitis, G., Bitner-Gregersen, E., Shigunov, V., El Moctar, O., Guedes Soares, C., Reddy, D.N. and Sprenger, F. (2015), "Minimum Propulsion and Steering Requirements for Efficient and Safe Operation (SHOPERA)", *37th Motorship Propulsion & Emissions Conference (Motorship 2015)*, 4-5 March, Hamburg, Germany.

2.3.197 Wang, Y., Wu, W. and Guedes Soares, C. (2016), "Slam induced loads of a 3D bow with various pitch angles", *Proceedings of the 35th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2016)*, 19-24 June, Busan, South Korea.

2.3.198 Kamarlouei, M. (2016), "Speed Control of Oil-hydraulic PTO Designed for Point Energy Absorbers", *INORE 10th European Symposium 2016*, 12-18 June, Nantes, France.

2.3.199 Rodrigues, J.M., Xu, S. and Guedes Soares, C. (2016), "Hydrodynamic analysis and optimization of the DEXA WEC operated in a specified location", *INORE 10th European Symposium 2016*, 12-18 June, Nantes, France.

2.3.200 Gaspar, J.F., Kamarlouei, M., Calvario, M. and Guedes Soares, C. (2016), "PTO concept for circular type WEC arrays", *2016 INORE North American Symposium*, 29 Oct-2 Nov., Orono, Maine.

2.3.201 Sutulo, S. and Guedes Soares, C. (2016), "Parametric study of a modified panel method in application to the ship-to-ship hydrodynamic interaction", *Proceedings of the 4th International Conference on Ship Manoeuvring in Shallow and Confined Water (MASHCON 2016)*, 23-25 May, Hamburg, Germany.

2.3.202 Simão, J.P., Costa Ramos, A.F., Pinheiro, L.V., Hinostroza, M.A., Santos, J.A. and Fortes, C.J. (2016), "Ship movements' analysis in a scale model (in Portuguese)", *10º. Congresso Nacional de Mecânica Experimental (CNME2016)*, 12-14 October, Lisboa, Portugal.

2.3.202a Vijay, K.G., Karmakar, D. and Guedes Soares, C. (2016), "Long-term response analysis of TLP-type offshore floating wind turbine", *Proceedings of the International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO 2016)*, 8-10 December, Central Water and Power Research Station (CWPRS), Pune, India, pp. 1023-1033.

2.3.203 Diaz, H.M., Rodrigues, J.M. and Guedes Soares, C. (2017), "Evaluation of an offshore floating wind power project on the Galician coast", *Proceedings of the ASME 2016 36th International Conference on Ocean, Offshore and Arctic Engineering (OMAE17)*, 25-30 June, Trondheim, Norway.

2.3.204 Rajendran, S. and Guedes Soares, C. (2017), "Numerical investigation of parametric rolling of a container ship in regular and irregular waves", *Proceedings of the ASME 2016 36th International Conference on Ocean, Offshore and Arctic Engineering (OMAE17)*, 25-30 June, Trondheim, Norway.

2.3.205 Rodrigues, J.M. and Guedes Soares, C. (2017), "Ship vertical loads from using an adaptive mesh pressure integration technique for Froude-Krylov forces calculation", *Proceedings of the ASME 2016 36th International Conference on Ocean, Offshore and Arctic Engineering (OMAE17)*, 25-30 June, Trondheim, Norway.

2.3.206 Pedro, F., Pinheiro, L., Ramos, A., Hinostroza, M.A., Santos, J.A. and Fortes, C.J.E.M. (2017), "Experimental characterization of the motions of a moored vessel subjected to ocean and ship waves (in Portuguese)", *Simpósio de Hidraulica e Recursos Hidricos dos Paises de Lingua Portuguesa (13º Silusba)*, 13-15 September, Porto, Portugal.

2.3.207 Pedro, F., Hinostroza, M.A., Ramos, A., Pinheiro, L., Santos, J.A. and Fortes, C.J.E.M. (2017), "Experimental characterization of ship motions induced by passing ships", *International Short Course Conference on Applied Coastal Research (SCACR2017)*, 3-6 October, Santander, Spain.

2.3.208 Calvário, M., Gaspar, J.F., Kamarlouei, M. and Guedes Soares, C. (2017), "Optimization of Mechanical Design and Control Parameters of an Oil-Hydraulic Power Take-off System", *12th European Wave and Tidal Energy Conference (EWTEC 2017)*, 27 August - 1 September, Cork, Ireland.

2.3.208a Pedro, F.G.L., Pinheiro, L.V., Santos, J.A., Fortes, C.J.E.M. and Hinostroza, M.A. (2017), "Physical and numerical modelling of the hydrodynamic interaction between two ships", *9as Jornadas Portuguesas de Engenharia Costeira e Portugal*, 23-24 November, Lisboa, Portugal.

2.3.209 Hallak, T.S., Gaspar, J.F., Kamarlouei, M., Calvário, M., Mendes, M.J.G.C., Thiebaut, F. and Guedes Soares, C. (2018), "Numerical and Experimental analysis of a hybrid wind-wave offshore floating platform's hull", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

2.3.210 Hallak, T.S., Ventura, M. and Guedes Soares, C. (2018), "An optimization method for the concept design of semi-submersible offshore accommodation units", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

2.3.211 Hinostroza, M.A., Guedes Soares, C. and Xu, H.T. (2018), "Motion planning, guidance and control system for autonomous surface vessel", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

2.3.212 Rajendran, S. and Guedes Soares, C. (2018), "Short term statistics of hydroelastic loads of a containership in head and oblique seas", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

2.3.213 Ren. H., Xu, C., Zhou, XQ., Sutulo, S., Guedes Soares, C. and Li, C.F. (2018), "Analysis of numerical errors of the Hess Smith Panel Method with asymmetric meshes", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

2.3.214 Wang, S. and Guedes Soares, C. (2018), "A numerical investigation on water slamming of stiffened panels", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

2.3.215 Wang, S., Rajendran, S. and Guedes Soares, C. (2018), "Investigation of bottom slamming on ships in irregular waves", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

2.3.216 Xu, H.T., Hassani, V. and Guedes Soares, C. (2018), "Parameters estimation of nonlinear manoeuvring model for marine surface ship based on PMM tests", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

2.3.217 Xu, H.T., Hassani, V., Hinostroza, M.A. and Guedes Soares, C. (2018), "Real-time parameter estimation of nonlinear vessel steering model using support vector machine", *Proceedings of the*

ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018), 17-22 June, Madrid, Spain.

2.3.218 Xu, S., Ji, C.-Y. and Guedes Soares, C. (2018), "Analysis of catenary mooring systems based on truncated mooring experiments", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

2.3.219 Santos, A.M.P., Guedes Soares, C., Campos, A., Silva, A.D., Garrido, S. and Drago, T. (2018), "Autonomous Observing Systems in Fishing Vessels for the Support of Marine Ecosystem Management", *Forum on Fisheries Science in the Mediterranean and the Black Sea (FAO 2018)*, 10-14 December, Roma, Italy.

2.3.220 Kumawat, A.K., Karmakar, D. and Guedes Soares, C. (2018), "Numerical investigation of semi-submersible floating wind turbine combined with flap-type WECs", *4th International Conference in Ocean Engineering (ICOE 2018)*, 18-21 February, Normandy, Northern France.

2.3.221 Kumawat, A.K., Karmakar, D. and Guedes Soares, C. (2018), "Wave energy conversion by multiple bottom-hinged surging WEC", *4th International Conference in Ocean Engineering (ICOE 2018)*, 18-21 February, Normandy, Northern France.

2.3.222 Rajendran, S. and Guedes Soares, C. (2018), "Marine Vehicles and Floating Systems: Effect of slamming and green water on short term distribution of vertical bending moment of a containership in abnormal waves", *4th International Conference in Ocean Engineering (ICOE 2018)*, 18-21 February, Normandy, Northern France.

2.3.223 Datta, R., Rodrigues, J.M. and Guedes Soares, C. (2018), "Prediction of motions and wave induced loads on a container ship using non linear 3D time domain panel method", *4th International Conference in Ocean Engineering (ICOE 2018)*, 18-21 February, Normandy, Northern France.

2.3.224 Sutulo, S. and Guedes Soares, C. (2018), "Comparative testing of an identification method based on the genetic and ABC algorithms", *Proceedings of The International Marine Simulator Forum (MARSIM 2018)*, 12-16 August, Halifax, Canada.

2.3.225 Sutulo, S. and Guedes Soares, C. (2018), "Prediction of manoeuvring characteristics of the KVLCC2 ship with a hybrid system-based code", *Workshop on Verification and Validation of Ship Manoeuvring Simulation Methods (SIMMAN 2014)*, 7-10 December 2014, Lyngby, Denmark.

2.3.225a Pedro, F.G.L., Santos, J.A., Pinheiro, L.V., Fortes, C.J.E.M. and Hinostroza, M.A. (2018), "Analysis of the influence of the variability of depth on the interaction between two ships", *14º Congresso da Agua (AGUA 2018)*, 7-9 March, Évora, Portugal.

2.3.225b Pedro, F.G.L., Santos, J.A., Pinheiro, L.V., Fortes, C.J.E.M. and Hinostroza, M.A. (2018), "Effect of speed and depth variation on the interaction between two ships", *5as Jornadas de Engenharia Hidrografica (JEH 2018)*, 19-21 June, Lisboa, Portugal.

2.3.225c Pinheiro, L.V., Pedro, F.G.L., Hossam, S., Hinostroza, M.A., Santos, J.A. and Fortes, C.J.E.M. (2018), "Experimental measurements of movements and mooring forces of a ship under wave action", *1st Iberian Conference on Theoretical and Experimental Mechanics and Materials (CNME 2018)*, J.F. Silva Gomes (Ed.), Porto, Portugal, pp. 221-222.

2.3.225d Pedro, F.G.L., Santos, J.A., Pinheiro, L.V., Fortes, C.J.E.M. and Hinostroza, M.A. (2018), "Numerical and Experimental Studies on Ship Motions Induced by Passing Ships", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 25-30 June, Madrid, Spain.

2.3.225E Mikulic, A., Parunov, J. and Guedes Soares, C. (2018), "Global wave loads in damaged ship", *23rd Symposium on the Theory and Practice of Shipbuilding (SORTA 2018)*, 27-29 September, Split, Croatia.

2.3.226 Ren, H.L., Xu, C., Zhou, XQ., Sutulo, S. and Guedes Soares, C. (2019), "A numerical method for calculation of ship-ship hydrodynamics interaction in shallow water accounging for sinkage and trim", *Proceedings of the ASME 2019 38th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2019)*, 9-14 June, Glasgow, Scotland, UK.

2.3.227 Rezanejad, K. and Guedes Soares, C. (2019), "Hydrodynamic investigation of a novel concept of OWC type wave energy converter device", *Proceedings of the ASME 2019 38th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2019)*, 9-14 June, Glasgow, Scotland, UK.

2.3.228 Rezanejad, K., Gadelho, J.F.M., Lopes, I., Carballo, R. and Guedes Soares, C. (2019), "Improving the hydrodynamic performance of OWC wave energy converter by attaching a step", *Proceedings of the*

ASME 2019 38th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2019), 9-14 June, Glasgow, Scotland, UK.

2.3.229 Xu, H.T., Hinostroza, M.A. and Guedes Soares, C. (2019), "Time-Vayring vector field guidance law for path following and obstacle avoidance for underactuated autonomous vehicles", *Proceedings of the ASME 2019 38th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2019)*, 9-14 June, Glasgow, Scotland, UK.

2.3.230 Almeida, C., Sacramento, M. and Moreira, M. (2019), "Determine the amplitude and oscillating frequency and asymptotic resoultion of the Van der Pol equation resoting to the IFOHAM method (in Protuguese)", *4th International Conference on Differential & Difference Equations Applications (ICDDEA 2019)*, 1-5 July, Lisbon, Portugal.

2.3.231 Francisco, M.B.R.M., Mendes, M.J.G.C. and Calado, J.M.F. (2019), "An Electro-Pneumatic Prototype to Support the Teaching of Industry 4.0 Concepts", *5th Experiment@ International Conference (Exp.at'19)*, 12-14 June, Funchal, Madeira, Portugal, pp. 428-433.

2.3.232 Kamarlouei, M., Gaspar, J.F., Calvario, M., Hallak, T.S., Mendes, M.J.G.C., Thiebaut, F. and Guedes Soares, C. (2019), "On the experimental study of a concentric wave energy array adapted to an offshore floating platform", *Proceedings of the 13th European Wave and Tidal Energy Conference (EWTEC 2019)*, 1-6 September, Napoli, Italy.

2.3.233 Calvário, M., Gaspar, J.F., Kamarlouei, M. and Guedes Soares, C. (2019), "Optimal power take-off parameters for a bottom-hinged plate wave energy converter", *Proceedings of the 13th European Wave and Tidal Energy Conference (EWTEC 2019)*, 1-6 September, Napoli, Italy.

2.3.234 Wang, Zi., Guedes Soares, C. and Zou, Z.J. (2019), "Investigation of Training Data Selection in the Black-box Modeling of Ship Maneuvering Motion", *11th International Workshop on Ship and Marine Hydrodynamics (IWSH 2019)*, 22-25 September, Hamburg, Germany.

2.3.235 Sacramento, M., Almeida, C. and Moreira, M. (2019), "IFOHAM and determining periodic solutions of non-linear differential equations (in Protuguese)", *4th International Conference on Differential & Difference Equations Applications (ICDDEA 2019)*, 1-5 July, Lisbon, Portugal.

2.3.235A Santos, J.A., Pinheiro, L.V., Abdelwahab, H.S., Pedro, F.G.L., Fortes, C.J.E.M., Hinostroza, M.A. and Guedes Soares, C. (2018), "Physical modelling of motions and forces on a moored ship at the Leixões Port", *8º MCSul - Conferencia Sul em Modelagem Computacional e VIII SEMENGO - Seminario e Workshop em Engenharia Oceânica*, 22-24 October, Cidade de Rio Grande, Rio Grande do Sul, Brasil.

2.3.236 Islam, H., Campos, R.M., Ferreira, T.R.S. and Guedes Soares, C. (2020), "Hydrodynamic assessment of a biofouled wave buoy in coastal zone", *Proceedings of the ASME 2020 39th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2020)*, 28 June - 3 July, Fort Lauderdale, Florida, USA, paper: OMAE2020-18235.

2.3.237 Xu, S. and Guedes Soares, C. (2020), "Experimental investigation on a point absorber moored by taut mooring system and mooring fatigue analysis", *Proceedings of the ASME 2020 39th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2020)*, 28 June - 3 July, Fort Lauderdale, Florida, USA, paper: OMAE2020-18819.

2.3.238 Xu, S., Rezanejad, K., Wang, S., Gadelho, J. F. M., and Guedes Soares, C. (2020), "Experimental study of the performance of a compact mooring system for a dual chamber floating oscillating water column device", *Proceedings of the ASME 2020 39th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2020)*, 28 June - 3 July, Fort Lauderdale, Florida, USA, paper: OMAE2020-18839.

2.3.239 Diaz, H.M. and Guedes Soares, C. (2021), "Micro-siting of floating turbines through multiple-criteria decision-making", *40th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2021)*, 21-30 June, Virtual, Online, Paper: OMAE2021-63752.

2.3.240 Islam, H. and Guedes Soares, C. (2021), "Head wave simulation of a KCS model using OpenFOAM for the assessment of sea-margin", *40th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2021)*, 21-30 June, Virtual, Online, Paper: OMAE2021-63827.

2.3.241 Kamarlouei, M., Hallak, T.S., Gaspar, J.F. and Guedes Soares, C. (2021), "Evaluation of the negative stiffness mechanism on the performance of a hinged wave energy converter", *40th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2021)*, 21-30 June, Virtual, Online, Paper: OMAE2021-63748.

2.3.242 Kamarlouei, M., Hallak, T.S., Gaspar, J.F., Calvário, M. and Guedes Soares, C. (2021), "Optimization of a Torus-shaped Wave Energy Converter Attached to a Hinged Arm", *40th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2021)*, 21-30 June, Virtual, Online, Paper: OMAE2021-63729.

2.3.243 Mohseni, M. and Guedes Soares, C. (2021), "Numerical Simulation of Wave Interaction with a Pair of Fixed Large Tandem Cylinders Subjected to Regular Non-Breaking Waves", *40th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2021)*, 21-30 June, Virtual, Online, Paper: OMAE2021-62089.

2.3.244 Wang, S. and Guedes Soares, C. (2021), "Three-dimensional effects on slamming loads", *40th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2021)*, 21-30 June, Virtual, Online, Paper: OMAE2021-63741.

2.3.245 Wang, S. and Guedes Soares, C. (2021), "Numerical assessment of turbuelence effects on water entry of a hemisphere", *40th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2021)*, 21-30 June, Virtual, Online, Paper: OMAE2021-63733.

2.3.246 Ucar, M., Uzunoglu, E. and Oguz, E. (2021), "Comparison and Evaluation of Open-Source Panel Method Codes against Commercial Codes", *2nd International Congress on Ship and Marine Technology (GMO-SHIPMAR 2021)*, Yildiz Technical University Auditorium, Besiktas, Istanbul, Turkey.

2.3.247 Uzunoglu, E., Oguz, E. and Guedes Soares, C. (2021), "An Overview of Platform Types Used in Floating Wind Energy", *2nd International Congress on Ship and Marine Technology (GMO-SHIPMAR 2021)*, Yildiz Technical University Auditorium, Besiktas, Istanbul, Turkey.

2.3.248 Gonzalez-Cao, J., Dominguez, J.M., Gomez-Gesteira, M., Wang, S. and Guedes Soares, C. (2021), "Comparing mesh-free and mesh-based methods to deal with fluid-structure interaction problems", *Marine Technology Workshop*, 16-18 June, Vigo, Galicia, Spain, pp. 152-153.

2.3.249 Hallak, T.S., Islam, H., Mohapatra, S.C. and Guedes Soares, C. (2021), "Comparing numerical and analytical solutions of solitary water waves over finite and variable depth", *40th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2021)*, Virtual, Online, OMAE2021-62642, V006T06A062.

2.3.250 Wang, S. and Guedes Soares, C. (2022), "Analysis of the Experimental Data of Slamming Loads on an LNG Carrier in Abnormal Waves", *41st International Conference on Ocean, Offshore and Arctic Engineering (OMAE2022)*, 5-10 June, Hamburg, Germany, paper OMAE2022-79037, V05BT12A009.

2.3.251 Wang, S. and Guedes Soares, C. (2022), "Random experimental uncertainty analysis on the model tests of an LNG carrier in extreme seas", *41st International Conference on Ocean, Offshore and Arctic Engineering (OMAE2022)*, 5-10 June, Hamburg, Germany, paper OMAE2022-79048, V05BT12A010.

2.3.252 Ribeiro e Silva, S. and Varela, J.M. (2022), "Ship Gyroscopic roll stabilisation", *41st International Conference on Ocean, Offshore and Arctic Engineering (OMAE2022)*, 5-10 June, Hamburg, Germany, paper OMAE2022-79530, V05BT12A012.

2.3.253 Barajas, G., Lara, J.L., Gadelho, J.F.M. and Guedes Soares, C. (2022), "Novel methodology for a fast 3D numerical analysis of the PTO damping force on a dual-chamber OWC", *OpenFOAM Workshop 2022*, 13 July, Cambridge, UK.

2.5 PhD Dissertations

2.5.1 Fonseca, N. (2001), "Hydrodynamics of Motions and Loads in Ships Induced by Large Amplitude Waves", Instituto Superior Técnico, Lisboa.

2.5.2 Pascoal, R. (2007), "Hydrodynamics and Control of Moored Floating Platforms", Instituto Superior Técnico, Lisboa.

2.5.3 Santos, T.A. (2007), "Dynamic Analysis and Design of Damaged Ships *(in Portuguese)*", Instituto Superior Técnico, Lisboa.

2.5.4 Ciortan, C. (2008), "CFD Simulation of Transient Free Surface Flows around Ships", Instituto Superior Técnico, Lisboa.

2.5.5 Moreira, L. (2008), "Guidance, Control and Navigation of Autonomous Vehicles in Coastal and Inland Waters", Instituto Superior Técnico, Lisboa.

2.5.6 Ribeiro e Silva, S. (2008), "Instability of Non-Linear Dynamic Ship Behaviour at Sea *(in Portuguese)*", Instituto Superior Técnico, Lisboa.

2.5.7 Cacho, A.J. (2010), "Disribuited virtual environments for the simulation and monitorization of maritime traffic", Instituto Superior Técnico, Lisboa.

2.5.8 Mineiro, F.P.S. (2011), "Coupled Analysis Validation of the Vertical Movements of FPSOs with Turrent by Full Scale Monitoration (*in Portuguese*)", Universidade Federal do Rio de Janeiro, Brasil.

2.5.9 Perera, L.P. (2012), "Intelligent guidance for autonomous navigation and collision avoidance in maritime transportation", Instituto Superior Técnico, Lisboa.

2.5.10 Turk, A. (2012), "Coupled Nonlinear Parametric Resonance Model for Container Ships", University of Rijeka, Croatia.

2.5.11 Varela, J.M. (2012), "Numerical simulation of ship dynamics in virtual environments (*in Portuguese*)", Instituto Superior Técnico, Lisboa.

2.5.12 Pessoa, J.M.M.M. (2013), "Second Order Wave Exciting Loads and Operability of Side by Side Floating Vessels in Waves", Instituto Superior Técnico, Lisboa.

2.5.13 Zhou, XQ. (2015), "Hydrodynamic interaction between ships manoeuvring in restricted waters with complex boundaries", Instituto Superior Técnico, Lisboa.

2.5.14 Rajendran, S. (2015), "Nonlinear Time Domain Method to Calculate Ship Motions and Structural Load in Extreme Seas", Instituto Superior Técnico, Lisboa.

2.5.15 Siow, C.L. (2016), "Numerical modelling for hydrodynamic behavior of round shape FLNG interacting with LNG carrier", University of Technology Malaysia, Johor Bahru, Malaysia.

2.5.16 Rodrigues, J.M. (2016), "Behaviour of damaged ships subjected to flooding", Instituto Superior Técnico, Lisboa.

2.5.17 Wang, S. (2016), "Hydroelastic Response of Ship Structural Components Subjected to Slamming Loads", Instituto Superior Técnico, Lisboa.

2.5.18 Vettor, R. (2017), "Ship Weather Routing", Instituto Superior Tecnico, Lisboa.

2.5.19 Wnek Martins, A.D. (2017), "CFD modelling of hydrodynamic and aerodynamic forces in manoeuvring of ships", Instituto Superior Tecnico, Lisboa.

2.5.20 Rezanejad, K. (2018), "Hydrodynamic Analysis of Oscillating Water Column Wave Energy Converters", Instituto Superior Tecnico, Lisboa.

2.5.21 Rodrigues, S.R.A. (2018), "Propagation of waves generated by a ship navigating in a channel", Instituto Superior Tecnico, Lisboa.

2.5.22 Uzunoglu, E. (2019), "A system for the hydrodynamic design of floating wind turbine platforms", Instituto Superior Tecnico, Lisboa.

2.5.23 Tadros, M. (2020), "Optimization procedures to minimize the fuel consumption of marine diesel propulsion systems", Instituto Superior Tecnico, Lisboa.

2.5.24 Hinostroza, M. A. (2021) "Motion planning, guidance and control system for the cooperative operation of autonomous surface vehicles", Instituto Superior Tecnico, Lisboa.

2.5.25 Xu, H.T. (2021) "System Identification, Guidance and Control of Marine Surface Vehicles", Instituto Superior Tecnico, Lisboa.

2.5.26 Raed Hussein, K. (2021), "Probabilistic Wave Load Models for Floating Offshore Wind Turbines", Instituto Superior Tecnico, Lisboa.

2.5.27 Xu, S. (2021), "Mooring Design and Analysis for Offshore Platforms and Wave Energy Converters", Instituto Superior Tecnico, Lisboa.

2.6 MSc Dissertations

2.6.1 Fonseca, N. (1994), "Non-Linear Motion Response Simulation of Floating Vessels in Waves", University de Glasgow, United Kingdom.

2.6.2 Ramos do Ó, J. (1996), "Dynamic Response of Ship Hulls to Slamming Loads in Irregular Waves", University de Glasgow, United Kingdom.

2.6.3 Centeno, R. (1998), “The Influence of Catamaran Main Characteristics on Ship Motions in Regular Waves”, University de Glasgow, United Kingdom.

2.6.4 Santos, T.A. (1999), “Time Domain Simulation of Accidental Flooding of Ro-Ro Ships”, University de Glasgow, United Kingdom.

2.6.5 Gonçalves, J.C.A. (2000), “Performance Prediction of Sailing Vessels”, University of Southampton, United Kingdom.

2.6.6 Moreira, L. (2002), “Simulation of Ship Propulsion Systems and Manoueuvering Performance Based on Artificial Neural Networks”, University of Newcastle, United Kingdom.

2.6.7 Pascoal, R. (2003), “Simplified Non-Linear Models of Mooring Lines”, University de Glasgow, United Kingdom.

2.6.8 Santos, F.M. (2005), “Hydroelastic Study of a Fast Patrol Boat”, University of Southampton, United Kingdom.

2.6.9 Duarte, F. (2007), “Design of a Vessel with Electric Propulsion and Hydrogen Fuel Battery”, Instituto Superior Técnico, Lisboa.

2.6.10 Bettencourt, J. (2009), “Analysis of the performance of a Sail (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

2.6.11 Maftei, C. (2009), “Simulation of the Dynamics of a Marine Diesel Engine”, Instituto Superior Técnico, Lisboa.

2.6.12 Fonfach, J.M.A. (2010), “Numerical Study of the Hydrodynamic Interaction between Ships in Viscous and Inviscid Flows (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

2.6.13 Gamboa, F.J.L. (2010), “Development and Analysis of the aerodynamics of semi-rigid sails (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

2.6.14 Mélot, J.S.N. (2010), “Hydrogen / Solar-based Boat Propulsion System: Design, Modelling and Implementation on a Scale Model”, Instituto Superior Técnico, Lisboa.

2.6.15 Tello, M. (2010), “Dynamics and Hydrodynamics for Floating Wave Energy”, Instituto Superior Técnico, Lisboa.

2.6.16 Zhou, X. (2010), “Study of Hydrodynamic Interaction Loads in Shallow Water with Complex Boundaries”, Instituto Superior Técnico, Lisboa.

2.6.17 Bagbanci, H. (2011), “Dynamic Analysis of Offshore Floating Wind Turbines”, Instituto Superior Técnico, Lisboa.

2.6.18 Cerveira, F. (2011), “Development of a Sailing Yacht for Disabled People”, Instituto Superior Técnico, Lisboa.

2.6.19 Fernandes, R.A. (2011), “Dynamic stability on roll responses of fishing vessels under the combined effect of wind, wave & fishing devices (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

2.6.20 Muñoz Febrel, L. (2011), “Stabilization with U-type tankers to damp roll oscillations in waves (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

2.6.21 Uzunoglu, E. (2011), “Numerical and Experimental Study of Parametric Rolling of a Container Ship in Wave”, Instituto Superior Técnico, Lisboa.

2.6.22 Vasquez, G. (2011), “Non-linear wave induced loads in ship structures”, Instituto Superior Técnico, Lisboa.

2.6.23 Lobato, Francisco, (2012), “Aero-elastic analysis of racing boat rig Figaro Beneteau 2”, Instituto Superior Técnico, Lisboa.

2.6.24 Santos, F.J.P. (2012), “Development of two electronic circuits for speed and manoeuvring control of an autonomous model of a tanker (*in Portuguese*)”, Universidade Nova de Lisboa, Lisboa.

2.6.25 Hinostroza, M. A. (2014), “Parametric Estimation of Directional Wave Spectrum”, Instituto Superior Técnico, Lisboa.

2.6.26 Lima, D.B.V. (2014), “Modelling of close-proximity manoeuvres in shallow water channels”, Instituto Superior Técnico, Lisboa.

2.6.27 Sinha, A. (2014), “Hydrodynamic analysis of multiple heaving point wave energy converter”, Instituto Superior Técnico, Lisboa.

2.6.28 Mendonça, P. (2016), “Hydrodynamic modeling of heaving systems for wave energy conversion”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.29 Geraldes, G.L.A.E. (2017), “Optimisation and hydrodynamic analysis of a bottom-hinged surge wave energy converter”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.30 Belga, F.C.R. (2017), “Seakeeping optimization of a fast displacement catamaran on the basis of strip-theory codes”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.31 Oliveira, F.M. (2018), “Assessment of motions and loads of catamarans”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.32 Rosa, J.P.G. (2019), “Improvement of ship hulls for comfort in passenger vessels”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.33 Silva, N. (2019), “CFD and Finite Element Investigation of Water Impact on Composite Panels”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.34 Bergamini, G. (2020), “Probabilistic approach to ship operational risk accounting for uncertainties”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.35 Bernardo, T.A. (2020), “Analysis and Design of Offshore Aquaculture Installations”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.36 Costa, A.C. (2020), “Parameter estimation of an empirical manoeuvring model”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.37 Delgado, J.R.R. (2020), “Simplified approach for the estimation of the added resistance of ships in waves”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.38 Depalo, F. (2020), “Design of the mooring system for a wave energy converter”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.39 Mauri, F.A. (2020), “Responses of the mast and shrouds of a sailboat subjected to wind force”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.40 Perlino, G. (2020), “On Gyroscopic Roll Stabilization of Ships”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.41 Rolland, Y. (2020), “Dynamic response of composite plates subjected to pressure impulse”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.42 Steelandt, M. (2020), “Propeller selection based on real weather conditions”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.43 Romanelli, F. (2021), “Parametric Modelling of Hulls for Small Craft”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.44 Souza Filho, J.C. (2021), “Hydrodynamic analysis of a dual-body wave energy converter dvice with two differente power take-off configurations”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.45 Valencia, J.B. (2021), “A preliminary evaluation of the performance parameters of point absorbers for the extraction of wave energy”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.46 Veira, J.T.M.M.R. (2021), “Analysis of propulsion and power generation systems for environmentally friendly ships”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.47 Capdevila, J.T. (2022), “Hydrogen as a maritime fuel and design of a zero emissions propulsion system”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

2.6.48 Silveira, M.F. (2022), “Computational fluid dynamics analysis on the freefall of a lifeboat”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

3. Marine Structures

3.1 Papers in Journals

3.1.1 Jones, N. and Guedes Soares, C. (1978), "Higher Modal Dynamic Plastic Behaviour of Beams Loaded Impulsively", *International Journal of Mechanical Science*, Vol. 20, pp. 135-147.

3.1.2 Guedes Soares, C. (1980), "Rigid-Plastic Methods of Analysis of Structures Subjected to Intense Dynamic Loading" (in Portuguese), *Técnica*, Vol. 42, Issue 461, pp. 89-95.

3.1.3 Guedes Soares, C. (1981), "A Mode Solution for the Finite Deflections of a Circular Plate Loaded Impulsively", *Engineering Transactions*, Vol. 29, Issue 1, pp. 99-114.

3.1.4 Guedes Soares, C. and Soreide, T.H. (1983), "Behaviour and Design of Stiffened Plates Under Predominantly Compressive Loads", *International Shipbuilding Progress*, Vol. 30, Issue 341, pp. 13-27.

3.1.5 Guedes Soares, C. and Soreide, T.H. (1983), "Plastic Analysis of Laterally Loaded Circular Tubes", *Journal of Structural Engineering*, Vol. 109, Issue 2, pp. 451-467.

3.1.6 Guedes Soares, C. (1988), "Design Equation for the Compressive Strength of Unstiffened Plate Elements with Initial Imperfections", *Journal of Constructional Steel Research*, Vol. 9, pp. 287-310.

3.1.7 Guedes Soares, C. (1988), "A Code Requirement for the Compressive Strength of Plate Elements", *Marine Structures*, Vol. 1, pp. 71-80.

3.1.8 Guedes Soares, C. and Roque, R. (1991), "Analysis of Rule Designed Fishing Vessels in Fibre Reinforced Plastics", *Bulletin Association Technique Maritime et Aeronautique*, Issue 91, pp. 461-490.

3.1.9 Guedes Soares, C. (1992), "Design Equation for Ship Plate Elements under Uniaxial Compression", *Journal Constructional Steel Research*, Vol. 22, pp. 99-114.

3.1.10 Carvalho, A. and Guedes Soares, C. (1996), "Dynamic Response of Rectangular Plates of Composite Materials Subjected to Impact Loads", *Composite Structures*, Vol. 34, pp. 55-63.

3.1.11 Gordo, J.M., Guedes Soares, C. and Faulkner, D. (1996), "Approximate Assessment of the Ultimate Longitudinal Strength of the Hull Girder", *Journal of Ship Research*, Vol. 4, Issue 1, pp. 60-69.

3.1.12 Gordo, J.M. and Guedes Soares, C. (1996), "Approximate Method to Evaluate the Hull Girder Collapse Strength", *Marine Structures*, Vol. 9, Issues 3-4, pp. 449-470.

3.1.13 Guedes Soares, C. and Gordo, J.M. (1996), "Collapse Strength of Rectangular Plates under Transverse Compression", *Journal of Constructional Steel Research*, Vol. 36, Issue 3, pp. 215-234.

3.1.14 Guedes Soares, C. and Gordo, J.M. (1996), "Compressive Strength of Rectangular Plates under Biaxial Load and The Lateral Pressure", *Thin-Walled Structures*, Vol. 24, pp. 231-259.

3.1.15 Gordo, J.M. and Guedes Soares, C. (1997), "Interaction Equation for the Collapse of Tankers and Containerships under Combined Bending Moments", *Journal of Ship Research*, Vol. 41, Issue 3, pp. 230-240.

3.1.16 Guedes Soares, C. and Gordo, J.M. (1997), "Design Methods for Stiffened Plates under Predominantly Uniaxial Compression", *Marine Structures*, Vol. 10, pp. 465-497.

3.1.17 Guedes Soares, C., Gordo, J.M. and Teixeira, A.P. (1998), "Elasto-Plastic Behaviour of Plates Subjected to Heat Loads", *Journal of Constructional Steel Research*, Vol. 45, Issue 2, pp. 179-198.

3.1.18 Sutherland, L.S. and Guedes Soares, C. (1999), "Impact of Tests of Woven Roving E-Glass/Polyester Laminates", *Journal of Composites Science and Technology*, Vol. 59, pp. 1553-1567.

3.1.19 Sutherland, L.S. and Guedes Soares, C. (1999), "Effects of Laminate Thickness and Reinforcement Type on the Impact Behaviour of E-Glass / Polyester Laminates", *Journal of Composites Science and Technology*, Vol. 59, pp. 2243-2260.

3.1.20 Guedes Soares, C., Gordo, J.M. and Teixeira, A.P. (2000), "Design Equations for Plates Subjected to Heat Loads and Lateral Pressure", *Marine Structures*, Vol. 13, Issue 1, pp. 1-23.

3.1.21 Guedes Soares, C. and Teixeira, A.P. (2000), "Strength of plates subjected to localised heat loads", *Journal of Constructional Steel Research*, Vol. 53, pp. 335-358.

3.1.22 Guedes Soares, C. and Teixeira, A.P. (2001), "Strength of Compressed Rectangular Plates Subjected to Lateral Pressure", *Journal of Constructional Steel Research*, Vol. 57, pp. 491-516.

3.1.23 Sutherland, L.S. and Guedes Soares, C. (2002), "Impact Behaviour of Low Fibre-Fraction Glass / Polyester Laminates", *Mecânica Experimental*, Issue 7, pp. 53-59.

3.1.24 Garbatov, Y., Rudan, S. and Guedes Soares, C. (2002), "Fatigue Damage of Structural Joints Accounting for Nonlinear Corrosion", *Journal of Ship Research*, Vol. 46, Issue 4, pp. 289-298.

3.1.25 Gordo, J.M. and Guedes Soares, C. (2002), "Bending Tests on a Thin Wall Box Girder" (in Portuguese), *Mecânica Experimental*, Issue 8, pp. 55-65.

3.1.25a Barradas Cardoso, J., Sousa, L.G., Castro, J.A. and Valido, A.J. (2002), "Optimal Design of Thin-Walled Composite Beam Structures", *Structural Engineering and Mechanics International Journal*, Vol. 24, pp. 205-211.

3.1.26 Sun, H.-H. and Guedes Soares, C. (2003), "An Experimental Study of Ultimate Torsional Strength of a Ship-Type Hull Girder with a Large Deck Opening", *Marine Structures*, Vol. 16, pp. 51-67.

3.1.27 Sutherland, L. and Guedes Soares, C. (2003), "The Effects of Test Parameters on the Impact Response of Glass Reinforced Plastic using an Experimental Design Approach", *Composites Science & Technology*, Vol. 63, pp. 1-18.

3.1.28 Guedes Soares, C., Garbatov, Y. and Von Selle, H. (2003), "Fatigue Damage Assessment of Ship Structures Based on the Long-Term Distribution of Local Stresses", *International Shipbuilding Progress*, Vol. 50, Issues 1-2, pp. 35-55.

3.1.29 Rudan, S., Garbatov, Y. and Guedes Soares, C. (2003), "Fatigue Damage Assessment of Side Shell Longitudinals Based on Spectral Approach", *Croatian Journal of Shipbuilding*, Vol. 51, Issue 3, pp. 227-234.

3.1.29a Barradas Cardoso, J. and Valido, A.J. (2003), "Geometrically Nonlinear Composite Beam Structures: Design Sensitivity Analysis", *Engineering Optimization*, Vol. 35, pp. 531-555.

3.1.29b Barradas Cardoso, J. and Valido, A.J. (2003), "Geometrically Nonlinear Composite Beam Structures: Optimal Design", *Engineering Optimization*, Vol. 35, Issue 5, pp. 553-560.

3.1.30 Sutherland, L. and Guedes Soares, C. (2004), "Effect of Laminate Thickness and of Matrix Resin on the Impact of Low Fibre-Volume, Woven Roving E-Glass Composites", *Composites Science and Technology*, Vol. 64, pp. 1691-1700.

3.1.31 Garbatov, Y., Rudan, S. and Guedes Soares, C. (2004), "Assessment of Geometry Correction Functions of Tanker Knuckle Details Based on Fatigue Tests and Finite-Element Analysis", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 126, pp. 220-226.

3.1.32 Gordo, J.M. and Guedes Soares, C. (2004), "Experimental Evaluation of the Ultimate Bending Moment of a Box Girder", *Marine Systems and Ocean Technology*, Vol. 1, Issue 1, pp. 33-46.

3.1.33 Sutherland, L.S. and Guedes Soares, C. (2004), "Transverse Impact of Circular Marine Composite Plates", *Mecânica Experimental*, Vol. 10, pp. 83-93.

3.1.34 Sutherland, L.S., Santos, F.M. e Guedes Soares, C. (2005), "Indentation of composites of ship application" (in Portuguese), *Mecânica Experimental*, Issue 11, pp. 35-45.

3.1.35 Sutherland, L.S. and Guedes Soares, C. (2005), "Contact Indentation of Marine Composites", *Composite Structures*, Vol. 70, pp. 287-294.

3.1.36 Sadovský, Z., Teixeira, A.P. and Guedes Soares, C. (2005), "Degradation of the Compressive Strength of Rectangular Plates due to Initial Deflection", *Twin-Walled Structures*, Vol. 43, pp. 65-82.

3.1.37 Sutherland, L.S. and Guedes Soares, C. (2005), "Impact Characterisation of Low Fibre-Volume Glass Reinforced Polyester Circular Laminated Plates", *International Journal of Impact Engineering*, Vol. 31, pp. 1-23.

3.1.38 Sutherland, L.S. and Guedes Soares, C. (2005), "Impact on Low Fibre-Volume, Glass / Polyester Rectangular Plates" *Composite Structures*, Vol. 68, pp. 13-22.

3.1.39 Sadovský, Z., Teixeira, A.P. and Guedes Soares, C. (2006), "Degradation of the Compression Strength of Square Plates due to Initial Deflection", *Journal of Constructional Steel Research*, Vol. 62, pp. 369-377.

3.1.40 Sutherland, L.S., Rodrigues, B. and Guedes Soares, C. (2006), "Design and commissioning of a portico with hydraulic actuator for structural testing", *Mecânica Experimental*, Vol. 12, pp. 1-9.

3.1.41 Dimas, D.M. and Guedes Soares, C. (2006), "Experimental and numerical study of clamped beams under transverse impact in the mid-section", *Mecânica Experimental*, Vol. 12, pp. 11-22.

3.1.42 Kamenov-Toshkov, L., Ivanov, L.D. and Garbatov, Y. (2006), "Wave-Induced Design Bending Moment Assessment for any given Ship's Operational Life", *Ship and Offshore Structures*, Vol. 1, Issue 3, pp. 221-227.

3.1.43 Sutherland, L.S. and Guedes Soares, C. (2006), "Impact Behaviour of Typical Marine Composite Laminates", *Composites Part B: Engineering*, Vol. 37, pp. 89-100.

3.1.44 Chen, N.-Z. and Guedes Soares, C. (2007), "Longitudinal Strength Analysis of Ship Hulls of Composite Materials under Sagging Moments", *Composite Structures*, Vol. 77, Issues 1, pp. 36-44.

3.1.45 Chen, N.-Z. and Guedes Soares, C. (2007), "Progressive Failure Analysis for Prediction of Post-buckling Compressive Strength of Laminated Composite Plates and Stiffened Panels", *Journal of Reinforced Plastics and Composites*, Vol. 26, pp. 1021-1042.

3.1.46 Sutherland, L.S. and Guedes Soares, C. (2007), "Scaling of Impact on Low Fibre-Volume Glass-Polyester Laminates", *Composites Part A*, Vol. 38, pp. 307-317.

3.1.47 Rizzo, C.M., Paik, J.K., Brennan, F., Carlsen, C.A., Daley, C., Garbatov, Y., Ivanov, L., Simonsen, B.C., Yamamoto, N. and Zhuang, H.Z. (2007), "Current practices and recent advances in condition assessment of aged ships", *Ship & Offshore Structure*, Vol. 2, Issue 3, pp. 261-271.

3.1.48 Luís, R.M., Witkowska, M. and Guedes Soares, C. (2008), "Ultimate Strength of Transverse Plate Assemblies Under Uniaxial Loads", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 130, 021011.

3.1.49 Gordo, J.M. and Guedes Soares, C. (2008), "Compressive Tests on Short Continuous Panels", *Marine Structures*, Vol. 21, pp. 113–137.

3.1.50 Chakarov, K., Garbatov, Y. and Guedes Soares, C. (2008), "Fatigue Analysis of a Ship Deck Structure Accounting for Imperfections", *International Journal of Fatigue*, Vol. 30, pp. 1881-1897.

3.1.51 Guedes Soares, C., Luís, R.M., Nikolov, P., Dowes, J., Taczala, M., Modiga, M., Quesnel, T., Toderan, C. and Samuelides, M. (2008), "Benchmark study on the use of simplified structural codes to predict the ultimate strength of a damaged ship hull", *International Shipbuilding Progress*, Vol. 55, pp. 87-107.

3.1.52 Guedes Soares, C., Luís, R.M., Teixeira, A.P., Quesnel, T., Nikolov, P.I., Steen, E., Khan, I.A., Toderan, C., Olaru, V.D., Bollero, A. and Taczala, M. (2008), "Parametric Study on the Collapse Strength of Rectangular Plates with Localized Imperfections under Inplane Compression", *International Shipbuilding Progress*, Vol. 55, pp. 63-85.

3.1.53 Chakarov, K., Garbatov, Y. and Guedes Soares, C. (2008), "Hot Spot Stress and Stress Concentration Factors due to Different Fabrication Imperfections in Deck Structures", *International Shipbuilding Progress*, Vol. 55, pp. 47-62.

3.1.54 Chen, N.-Z. and Guedes Soares, C. (2008), "Spectral Stochastic Finite Element Analysis for Laminated Composite Plates", *Computer Methods in Applied Mechanics and Engineering*, Vol. 197, pp. 4830-4839.

3.1.55 Chen, N.-Z. and Guedes Soares, C. (2008), "Ultimate Longitudinal Strength of Ship Hulls in Composite Materials", *Journal of Ship Research*, Vol. 52, Issue 3, pp. 184-193.

3.1.56 Fricke, W., Bollero, A., Chirica, I., Garbatov, Y., Jancart, F., Kahl, A., Remes, H., Rizzo, C.M., von Selle, H., Urban, A., and Wei, L. (2008), "Round Robin Study on Structural Hot-Spot and Effective Notch Stress Analysis", *Ships and Offshore Structures*, Vol. 3, Issue 4, pp. 335-345.

3.1.57 Gordo, J.M. and Guedes Soares, C. (2008), "Experimental Evaluation of the Behaviour of a Mild Steel Box Girder under Bending Moment", *Ships and Offshore Structures*, Vol. 3, Issue 4, pp. 347-358.

3.1.58 Barreiros, A. and Barradas Cardoso, J. (2008), "A new approach to solve stochastic programming problems with recourse", *Engineering Optimization*, Vol. 40, Issue 5, pp. 475-488.

3.1.59 Cardoso, J.B., Moita, P.P. and Valido, A. J. (2008), "Design and Control of Non-Linear Mechanical Systems for Minimum Time", *Shock and Vibration Journal*, Vol. 15, Issues 3-4, pp. 315-324.

3.1.60 Luís, R.M., Guedes Soares, C. and Nikolov, P.I. (2008), "Collapse strength of longitudinal plate assemblies with dimple imperfections", *Ships and Offshore Structures*, Vol. 3, Issue 4, pp. 359-370.

3.1.61 Moita, P.P., Cardoso, J.B., and Valido, A.J., (2008), "A Space-Time Finite Element Model for Design and Control Optimization of Non-Linear Dynamic Response", *Shock and Vibration Journal*, Vol. 15, Issues 3-4, pp. 307-314.

3.1.62 Gordo, J.M. and Guedes Soares, C. (2009), "Tests on Ultimate Strength Hull Box Girders Made of High Tensile Steel", *Marine Structures*, Vol. 22, Issue 4, pp. 770-790.

3.1.63 Oktem, A.S. and Chaudhuri, R.A. (2009), "Higher-order theory based boundary-discontinuous Fourier analysis of simply supported thick cross-ply doubly curved panels", *Composite Structures*, Vol. 89, pp. 448-458.

3.1.64 Barradas Cardoso, J.E., Benedito, N.M.B. and Valido, A.J. (2009), "Finite element analysis of thin-walled composite laminated beams with geometrically nonlinear behaviour including warping deformation", *Thin-Walled Structures*, Vol. 47, Issue 11, pp. 1363-1372.

3.1.65 Jiang, X. and Guedes Soares, C., (2009), "Nonlinear FEM analysis of pitted mild steel square plates subjected to In-plane compression", *Journal of Ship Mechanics*, Vol. 13, Issue 3, pp. 399-405.

3.1.66a Barradas Cardoso, J., Moita, P.P. and Valido, A.J. (2010), "Multicriteria Oprimization of Injury Prevention Systems to Impact", *Shock and Vibration Journal*, Vol. 17(4-5), pp. 641-649.

3.1.66 Garbatov, Y., Rudan, S. and Guedes Soares, C. (2010), "Fatigue Assessment of Welded Trapezoidal Joints of Very Fast Ferry Subjected to Combined Load", *Engineering Structures*, Vol. 32, pp. 800-807.

3.1.69 Varela, J.M., Ventura, M. and Guedes Soares, C. (2011), "Product Data Model of Hull Structures and Digital Prototyping System for Basic Structural Design", *Ships and Offshore Structures*, Vol. 6, nº. 1-2, pp.3-14.

3.1.70 Gaspar, B., Garbatov, Y. and Guedes Soares, C. (2011), "Effect of weld shape imperfections on the structural hot-spot stress distribution", *Ships and Offshore Structures*, Vol. 6, Nº. 1-2, pp.145-160.

3.1.73 Chen, B.Q., Garbatov, Y. and Guedes Soares, C. (2011), "Measurement of weld induced deformations in three-dimensional structures based on photogrammetry technique", *Journal of Ship Production and Design*, Vol. 27, Nº. 2, pp. 51-62.

3.1.74 Chen, N.-Z., Wang, G. and Guedes Soares, C. (2011), "Palmgren-Miner's Rule and Fracture Mechanics-Based Inspection Planning", *Engineering Fracture Mechanics*, Vol. 78, pp. 3166–3182.

3.1.75 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2011), "Corrosion-Dependent Ultimate Strength Assessment of Aged Box Girders Based on Experimental Results", *Journal of Ship Research*, Vol. 55, Issue 4, pp. 289-300.

3.1.76 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2011), "Compressive Strength Assessment of a Moderately Corroded Box Girder", *Marine Systems & Ocean Technology*, Vol. 6(1), pp. 27-37.

3.1.77 Barradas Cardoso, J. and Valido, A.J. (2011), "Cross-Section Optimal Design of Composite Laminated Thin-Walled Beams", *Computers and Structures*, Vol. 89 (11-12), pp. 1069-1076.

3.1.78 Gordo, J.M. and Guedes Soares, C. (2011), "Compressive Tests on Stiffened Panels of Intermediate Slenderness", *Thin-Walled Structures*, Vol. 49, pp. 782-794.

3.1.79 Mantari, J.L., Oktem, A.S. and Guedes Soares, C. (2011), "Static and dynamic analysis of laminated composite and sandwich plates and shells by using a new higher-order shear deformation theory", *Composite Structures*, Vol. 94(1), pp. 37-49.

3.1.80 Oktem, A.S. and Guedes Soares, C. (2011), "Boundary Discontinuous Fourier Solution for Plates and Doubly Curved Panels Using a Higher Order Theory", *Composites: Part B*, Vol. 42(2), pp. 842-850.

3.1.81 Villavicencio, R. and Guedes Soares, C. (2011), "Numerical modelling of the boundary conditions on beams stuck transversely by a mass", *International Journal of Impact Engineering*, Vol. 38(5), pp. 384-396.

3.1.82 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2011), "Experimental Assessment of the Ultimate Strength of a Box Girder Subjected to Severe Corrosion", *Marine Structures*, Vol. 24(4), pp. 338-357.

3.1.83 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2011), "Corrosion Dependent Ultimate Strength Assessment of Aged Box Girders Based on Experimental Results", *Transactions of the Society of Naval Architects and Marine Engineers*, Vol. 119, pp. 591-602.

3.1.84 Mantari, J.L., Oktem, A.S. and Guedes Soares, C. (2012), "A new trigonometric layerwise shear deformation theory for the finite element analysis of laminated composite and sandwich plates", *Computers and Structures*, Vol. 94-95, pp. 45-53.

3.1.85 Mantari, J.L., Oktem, A.S. and Guedes Soares, C. (2012), "Bending response of functionally graded plates by using a new higher order shear deformation theory", *Composite Structures*, Vol. 94, pp. 714-723.

3.1.86 Jiang, X. and Guedes Soares, C. (2012), "Ultimate capacity of rectangular plates with partial depth pits under uniaxial loads", *Marine Structures*, Vol. 26, pp. 27-41.

3.1.87 Gordo, J.M. and Guedes Soares, C. (2012), "Compressive Tests on Long Continuous Stiffened Panels", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 134, 021403.

3.1.88 Oktem, A.S. and Guedes Soares, C. (2012), "Analysis of the Static Response of Cross-Ply Simply Supported Plates and Shells Based on a Higher-Order Theory", *Mechanics of Composite Materials*, Vol. 48(1), pp. 65-76.

3.1.89 Xu, M.C. and Guedes Soares, C. (2012), "Assessment of the ultimate strength of narrow stiffened panel test specimens", *Thin-Walled Structures*, Vol. 55, pp. 11-21.

3.1.90 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2012), "Analysis of Plate Deflections during Ultimate Strength Experiments of Corroded Box Girders", *Thin-Walled Structures*, Vol. 54, pp. 164-176.

3.1.91 Mantari, J.L. and Guedes Soares, C. (2012), "Bending analysis of thick exponentially graded plates using a new trigonometric higher order shear deformation theory", *Composite Structures*, Vol. 94, pp. 1991-2000.

3.1.92 Ventura, M. and Guedes Soares, C. (2012), "Surface Intersection in Geometric Modeling of Ships' Hulls", *Journal of Marine Science and Technology*, Vol. 17, pp. 114-124.

3.1.93 Oktem, A.S., Mantari, J.L. and Guedes Soares, C. (2012), "Static response of functionally graded plates and doubly-curved shells based on a higher order shear deformation theory", *European Journal of Mechanics A- Solids (EJMAS)*, Vol. 36, pp. 163-172.

3.1.94 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2012), "Effect of corrosion degradation on the ultimate strength of steel box girders", *Corrosion Engineering, Science & Technology*, Vol. 47(4), pp. 272-283.

3.1.95 Mantari, J.L. and Guedes Soares, C. (2012) "Generalized hybrid quasi-3D shear deformation theory for the static analysis of advanced composite plates", *Composite Structures*, Vol. 94, pp. 2561-2575.

3.1.96 Mantari, J.L. and Guedes Soares, C. (2012) "Analysis of isotropic and multilayered plates and shells by using a generalized higher-order shear deformation theory", *Composite Structures*, Vol. 94, pp. 2640-2656.

3.1.97 Mantari, J.L., Oktem, A.S. and Guedes Soares, C. (2012), "A new trigonometric shear deformation theory for isotropic, laminated composite and sandwich plates", *International Journal of Solids and Structures*, Vol. 49, pp. 43-53.

3.1.98 Nguyen, K.T., Garbatov, Y. and Guedes Soares, C. (2012), "Fatigue Damage Assessment of Corroded Oil Tanker Details Based on Global and Local Stress Approaches", *International Journal of Fatigue*, Vol. 43, pp. 197-206.

3.1.99 Jiang, X. and Guedes Soares, C. (2012), "A closed form formula to predict the ultimate capacity of pitted mild steel plate under biaxial compression", *Thin Walled Structures*, Vol. 59, pp. 27-34.

3.1.100 Villavicencio, R. and Guedes Soares, C. (2012), "Numerical modelling of laterally impacted plates reinforced by free and end connected stiffeners", *Engineering Structures*, Vol. 44, pp. 46-62.

3.1.101 Mantari, J.L., Oktem, A.S. and Guedes Soares, C. (2012), "A new higher order shear deformation theory for sandwich and composite laminated plates", *Composites Part: B*, Vol. 43, Issue 3, pp. 1489-1499.

3.1.102 Sutherland, L. S. and Guedes Soares, C. (2012), "The use of quasi-static testing to obtain the low-velocity impact resistance of Marine GRP laminates", *Composites Part B*, Vol. 43, pp. 1459-1467.

3.1.103 Garbatov, Y. and Guedes Soares, C. (2012), "Uncertainty Assessment of Fatigue Damage of Welded Ship Structural Joints", *Engineering Structures*, Vol. 44, pp. 322-333.

3.1.104 Xu, M.C. and Guedes Soares, C. (2012), "Numerical assessment of experiments on the ultimate strength of stiffened panels, *Engineering Structures*, Vol. 45, pp. 460-471.

3.1.105 Villavicencio, R., Sutherland, L.S. and Guedes Soares, C. (2012), "Numerical simulation of transversely impacted, clamped circular aluminium plates", *Ships and Offshore Structures*, Vol. 7(1), pp. 31-45.

3.1.106 Mantari, J.L., Oktem, A.S. and Guedes Soares, C. (2012), "Bending and free vibration analysis of isotropic and multilayered plates and shells by using a new accurate higher-order shear deformation theory", *Composites Part B*, Vol. 43, pp. 3348-3360.

3.1.107 Oktem, A.S. and Guedes Soares, C. (2012), "Higher-Order Theory Based Fourier Analysis of Cross-Ply Plates and Doubly Curved Panels", *Journal of Composite Materials*, Vol. 46(21), pp. 2675-2694.

3.1.108 Xu, M.C. and Guedes Soares, C. (2012), "Numerical study of the effect of geometry and boundary conditions on the collapse behaviour of stocky stiffened panels", *International Journal of Maritime Engineering*, Vol. 154, pp. A-67 - A-77.

3.1.109 Villavicencio, R. and Guedes Soares, C. (2012), "Numerical plastic response and failure of a pre-notched transversely impacted beam", *Ships and Offshore Structures*, Vol. 7, n.º 4, pp. 417-429.

3.1.110 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2013), "Ultimate Strength Assessment of Corroded Box Girders", *Ocean Engineering*, Vol. 58, pp. 35-47.

3.1.111 Xu, M.C. and Guedes Soares, C. (2013), "Assessment of the residual ultimate strength of wide dented stiffened panels subjected to compressive loads", *Engineering Structures*, Vol. 49, pp. 316-328.

3.1.112 Mantari, J.L. and Guedes Soares, C. (2013), "A novel higher-order shear deformation theory with stretching effect for functionally graded plates, *Composites Part B*, Vol. 45, pp. 268-281.

3.1.113 Fricke, W., Codda, M., Feltz, O., Garbatov, Y., Remes, H., Risso, G., Rizzo, C. and Romanoff, J. (2013), "Round robin study on local stress and fatigue assessment of lap joints and doubler plates", *Ships and Offshore Structures*, Vol. 8(6), pp. 621-627.

3.1.114 Chaudhuri, R.A., Oktem, A.S. and Guedes Soares, C. (2013), "Stress Concentration/Intensity around Elliptical/Circular Cylinder Shaped Surface Flaws in Thin Cross-Ply Plates and St. Venant's Principle", *Applied Mathematical Modelling*, Vol. 37, pp. 1362-1377.

3.1.115 Oktem, A.S., Alankaya, V. and Guedes Soares, C. (2013), "Boundary-Discontinuous Fourier Analysis of Simply Supported Cross-Ply Plates", *Applied Mathematical Modelling*, Vol. 37, pp. 1378-1389.

3.1.116 Xu, M.C. and Guedes Soares, C. (2013), "Experimental study on the collapse strength of wide stiffened panels", *Marine Structures*, Vol. 30, pp. 33-62.

3.1.117 Mantari, J.L. and Guedes Soares, C. (2013), "Finite element formulation of a generalized higher order shear deformation theory for advanced composite plates", *Composite Structures*, Vol. 96, pp. 545-553.

3.1.118 Nguyen, K.T., Garbatov, Y. and Guedes Soares, C. (2013), "Spectral Fatigue Damage Assessment of Tanker Deck Structural Detail Subjected to Time-Dependent Corrosion", *International Journal of Fatigue*, Vol. 48, pp. 147-155.

3.1.119 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2013), "Effect of Corrosion Severity on the Ultimate Strength of a Steel Box Girder", *Engineering Structures*, Vol. 49, pp. 560-571.

3.1.120 Xu, M.C. and Guedes Soares, C. (2013), "Comparisons of calculations with experiments on the ultimate strength of wide stiffened panels", *Marine Structures*, Vol. 31, pp. 82-101.

3.1.121 Edalat, P., Khedmati, M.R. and Guedes Soares, C. (2013), "Free Vibration and Dynamic Response Analysis of Stiffened Parabolic Shells using the Equivalent Orthotropic Shell Parameters", *Latin American Journal of Solids and Structures*, Vol. 10, pp. 747-766

3.1.122 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2013), "Experimental assessment of corroded steel box-girders subjected to uniform bending", *Ships and Offshore Structures*, Vol. 8(6), pp. 653-662.

3.1.123 Parunov, J, Gledic, I., Garbatov, Y. and Guedes Soares, C. (2013), "Fatigue assessment of corroded deck longitudinals of tankers", *International Journal of Maritime Engineering*, Vol. 155(Part A1), pp. 9-21.

3.1.124 Villavicencio, R. and Guedes Soares, C. (2013), "Impact response of rectangular and square stiffened plates supported on two opposite edges", *Thin Walled Structures*, Vol. 68, pp. 164-182.

3.1.125 Jiang, X. and Guedes Soares, C. (2013), "Ultimate Compressive Capacity of Rectangular Plates with Partial Depth Pits", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 135, 021401.

3.1.126 Xu, M. C. and Guedes Soares, C. (2013), "Experimental Study on the Collapse Strength of Narrow Stiffened Panels", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 135, 021402.

3.1.127 Ventura, M. and Guedes Soares, C. (2013), "Modelling Stiffeners of Ship Hull Structures", *Journal of Engineering for the Maritime Environment*, Vol. 227, Issue 2, pp. 155-166.

3.1.128 Villavicencio, R., Liu, Z., Amdahl, J. and Guedes Soares, C. (2013), "Influence of the neutral axis displacement on the residual strength of a damaged tanker double bottom structure", *Ships and Offshore Structures*, Vol. 8(6), pp. 663-674.

3.1.129 Mantari, J.L. and Guedes Soares, C. (2013), "Generalized layerwise HSDTs and finite element formulation for symmetric laminated and sandwich composite plates", *Composite Structures*, Vol. 105, pp. 319-331.

3.1.130 Xu, M.C., Fujikubo, M. and Guedes Soares, C. (2013), "Influence of model geometry and boundary conditions on the ultimate strength of stiffened panels under uniaxial compressive loading", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 135, 041603.

3.1.131 Xu, M.C., Garbatov, Y. and Guedes Soares, C. (2013), "Ultimate Strength Assessment of a Storage Tank Hull Based on Experimentally Developed Master Curves", *Journal of Marine Science and Application*, Vol. 12, pp. 127-139.

3.1.132 Xu, M.C., Yanagihara, D., Fujikubo, M. and Guedes Soares, C. (2013), "Influence of boundary condition on the collapse behaviour of stiffened panels under combined loads", *Marine Structures*, Vol. 34, pp. 205-225.

3.1.133 Liu, B., Villavicencio, R. and Guedes Soares, C. (2013), "Experimental and Numerical Plastic Response and Failure of Laterally Impacted Rectangular Plates, *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 135, 041602.

3.1.134 Teixeira, A.P., Guedes Soares, C., Chen, N.Z. and Wang, G. (2013), "Uncertainty analysis of load combination factors for global longitudinal bending moments of double hull tankers", *Journal of Ship Research*, Vol. 57(1), pp. 42-58.

3.1.135 Villavicencio, R., Kim, Y-H., Cho, S-R. and Guedes Soares, C. (2013), "Deformation process of web girders in small-scale tanker double hull structures subjected to lateral impact", *Marine Structures*, Vol. 32, pp. 84-112.

3.1.136 Liu, B., Villavicencio, R. and Guedes Soares, C. (2013), "Experimental and numerical plastic response and failure of pre-notched transversely impacted beams", *International Journal of Mechanical Sciences*, Vol. 77, pp. 314-332.

3.1.137 Moita, P.P., Cardoso, J.B. and Barreiros, A. (2012), "Optimal Design and Control of Mechanical Systems with Uncertain Input", *Journal of Shock and Vibration*, Vol. 19(5), pp. 1019-1025.

3.1.138 Chaudhuri, R.A., Oktem, A.S. and Guedes Soares, C. (2013), "Internally Pressurized Thin Unsymmetric Cross-Ply Cantilever Cylindrical Shells", *AIAA Journal*, Vol. 51(10), pp. 2523-2526.

3.1.139 Mantari, J.L. and Guedes Soares, C. (2014), "A trigonometric plate theory with 5-unknows and stretching effect for advanced composite plates", *Composite Structures*, Vol. 107, pp. 396-405.

3.1.140 Mantari, J.L. and Guedes Soares, C. (2014), "Optimized sinusoidal higher order shear deformation theory for the analysis of functionally graded plates and shells", *Composites Part B*, Vol. 56, pp. 126-136.

3.1.141 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2014), "Strength Assessment of a Severely Corroded Box Girder Subjected to Bending Moment", *Journal of Constructional Steel Research*, Vol. 92, pp. 90-102.

3.1.142 Garbatov, Y., Guedes Soares, C. and Parunov, J. (2014), "Fatigue strength experiments of corroded small scale steel specimens", *International Journal of Fatigue*, Vol. 59, pp. 137-144.

3.1.143 Mantari, J.L. and Guedes Soares, C. (2014), "Static response of advanced composite plates by a new non-polynomial higher-order shear deformation theory", *International Journal of Mechanical Sciences*, Vol. 78, pp. 60-71.

3.1.144 Mantari, J.L. and Guedes Soares, C. (2014), "Four-unknowns quasi-3D shear deformation theory for advanced composite plates", *Composite Structures*, Vol. 109, pp. 231-239.

3.1.145 Mantari, J.L., Bonilla, E.M. and Guedes Soares, C. (2014), "A new tangential-exponential higher order shear deformation theory for advanced composite plates", *Composites Part B*, Vol. 60, pp. 319-328.

3.1.146 Adak, M. and Guedes Soares, C. (2014), "Effects of Different Restraints on the Weld Induced Residual Deformations and Stresses in a Steel Plate", *International Journal of Advanced Manufacturing Technology*, Vol. 71, pp. 699-710.

3.1.147 Gordo, J.M. and Guedes Soares, C. (2014), "Experimental analysis of the effect of the frame spacing variation on the ultimate bending moment of box girders", *Marine Structures*, Vol. 37, pp. 111-134.

3.1.148 Villavicencio, R., Liu, B. and Guedes Soares, C. (2014), "Experimental and numerical analysis of a tanker side panel laterally punched by a knife edge indenter", *Marine Structures*, Vol. 37, pp. 173-202.

3.1.149 Edalat, P., Khedmati, M.R. and Guedes Soares, C. (2014), "Free Vibration Analysis of Open Thin Deep Shells with Variable Radii of Curvature", *Meccanica*, Vol. 49, pp. 1385-1405.

3.1.150 Garbatov, Y., Guedes Soares, C., Parunov, J. and Kodvanj, J. (2014), "Tensile strength assessment of corroded small scale specimen", *Corrosion Science*, Vol. 85, pp. 296-303.

3.1.151 Chen, B.Q., Hashemzadeh, M. and Guedes Soares, C. (2014), "Numerical and experimental studies on temperature and distortion patterns in butt-welded plates", *Int. Journal Advanced Manufacturing Technology*, Vol. 72, pp. 1121-1131.

3.1.152 Mantari, J.L., Granados, E.V., Hinostroza, M.A. and Guedes Soares, C. (2014), "Modelling advanced composite plates resting on elastic foundation by using a quasi-3D hybrid type HSDT", *Composite Structures*, Vol. 118, pp. 455-471.

3.1.153 Xu, M.C., Garbatov, Y. and Guedes Soares, C. (2014), "Residual ultimate strength assessment of stiffened panels with locked cracks", *Thin Walled Structures*, Vol. 85, pp. 398-410.

3.1.154 Cubells, A., Garbatov, Y. and Guedes Soares, C. (2014) "Photogrammetry measurements of initial imperfections for the ultimate strength assessment of plates", *International Journal of Maritime Engineering*, Vol. 156 (PartA4), pp. A-291 - A-302.

3.1.155 Liu, B., Villavicencio, R. and Guedes Soares, C. (2014), "On the failure criterion of aluminum and steel plates subjected to low-velocity impact by a spherical indenter", *International Journal of Mechanical Sciences*, Vol. 80, pp. 1-15.

3.1.156 Jurisic, P., Parunov, J. and Garbatov, Y. (2014), "Comparative analysis based on two non-linear corrosion models commonly used for prediction of structural degradation of oil tankers", *Transactions of Famena XXXVIII*, Vol. 2, pp. 21-30.

3.1.157 Mantari, J.L., Granados, E.V. and Guedes Soares, C. (2014), "Vibrational analysis of advanced composite plates resting on elastic foundation", *Composites Part B*, Vol. 66, pp. 407-419.

3.1.158 Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2015), "Ultimate strength assessment of welded stiffened plates", *Engineering Structures*, Vol. 84, pp. 325-339.

3.1.159 Liu, B., Villavicencio, R. and Guedes Soares, C. (2015), "Simplified analytical method to evaluate tanker side panels during minor collision incidents", *International Journal of Impact Engineering*, Vol. 78, pp. 20-33.

3.1.160 Liu, B., Villavicencio, R. and Guedes Soares, C. (2015), "Simplified method for quasi-static collision assessment of a damaged tanker side panel", *Marine Structures*, Vol. 40, pp. 267-288.

3.1.161 Gordo, J.M. and Guedes Soares, C. (2015), "Experimental Evaluation of the Ultimate Bending Moment of a Slender Thin-Walled Box Girder", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 137, 021604.

3.1.162 Mantari, J.L. and Guedes Soares, C. (2015), "A quasi-3D tangential shear deformation theory with four unknowns for functionally graded plates", *Acta Mechanica*, Vol. 226, pp. 625-642.

3.1.163 Liu, B., Villavicencio, R. and Guedes Soares, C. (2015), "Shear and tensile failure of thin aluminium plates struck by cylindrical and spherical indenters", *Ships and Offshore Structures*, Vol. 10(1), pp. 45-48.

3.1.164 Hashemzadeh, M., Chen, B.Q. and Guedes Soares, C. (2015), "Numerical and Experimental Study on Butt Weld with Dissimilar Thickness of thin Stainless Steel Plate", *International Journal of Advanced Manufacturing Technology*, Vol. 78, pp. 319-330.

3.1.165 Chaudhuri, R.A., Oktem, A.S. and Guedes Soares, C. (2015), "Beam-Column and Tie-Bar Effects in Internally Pressurized Thin Arbitrarily Laminated Cantilever Cylindrical Shells", *Journal of Engineering Mechanics*, Vol. 141, pp. 04014131-1 - 04014131-13.

3.1.166 Chaudhuri, R.A., Oktem, A.S. and Guedes Soares, C. (2015), "Levy-Type Boundary Fourier Analysis of Thick Clamped Hyperbolic-Paraboloidal Cross-ply Panels", *AIAA Journal*, Vol. 53(1), pp. 140-149.

3.1.167 Liu, B. and Guedes Soares, C. (2015), "Simplified analytical method for evaluating web girder crushing during ship collision and grounding", *Marine Structures*, Vol. 42, pp. 71-94.

3.1.168 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2015), "Stress-strain analysis of dented rectangular plates subjected to uni-axial compressive load", *Engineering Structures*, Vol. 99, pp. 78-91.

3.1.169 Edalat, P., Khedmati, M.R. and Guedes Soares, C. (2015), "Free Vibration of Stiffened Open Shells with Variable Radii of Curvature Using Extended Kantorovich-Ritz Method", *Ships and Offshore Structures*, Vol. 10(1), pp. 94-106.

3.1.170 Liu, B. and Guedes Soares, C. (2015), "Plastic response and failure of rectangular cross-section tubes subjected to transverse quasi-static and low-velocity impact loads", *International Journal of Mechanical Sciences*, Vol. 90, pp. 213-227.

3.1.171 Kharghani, N. and Guedes Soares, C. (2015), "Influence of different parameters on the deflection of composite laminates containing through-the-width delamination using Layerwise HSDT", *Composite Structures*, Vol. 132, pp. 341-349.

3.1.172 Li, XB. and Guedes Soares, C. (2015), "Spectral finite element analysis of in-plane free vibration of laminated composite shallow arches", *Composite Structures*, Vol. 132, pp. 484-494.

3.1.173 Xu, M.C. and Guedes Soares, C. (2015), "Effect of a central dent on the ultimate strength of narrow stiffened panels under axial compression", *International Journal of Mechanical Sciences*, Vol. 100, pp. 68-79.

3.1.174 Gordo, J.M. (2015), "Effect of Initial Imperfections on the Strength of Restrained Plates", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 137, 051401.

3.1.175 Mantari, J.L. and Guedes Soares, C. (2015), "Five-unknowns generalized hybrid-type quasi-3D HSDT for advanced composite plates", *Applied Mathematical Modelling*, Vol. 39, pp. 5598-5615.

3.1.176 Liu, B., Villavicencio, R. and Guedes Soares, C. (2015), "Influence of striker shape on the crack initiation and propagation on laterally impacted thin aluminium plates", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 137, 051402.

3.1.177 Witkowska, M. and Guedes Soares, C. (2015), "Ultimate Strength of Locally Damaged Panels", *Thin Walled Structures*, Vol. 97, pp. 225-240.

3.1.178 Chaudhuri, R.A., Oktem, A.S. and Guedes Soares, C. (2015), "Levy-Type Boundary Fourier Analysis of Thick Cross-ply Panels with Negative Gaussian Curvature", *Composites Part B*, Vol. 53(9), pp. 2492-2503.

3.1.179 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2015), "Fatigue damage assessment of fixed offshore wind turbine tripod support structures", *Engineering Structures*, Vol. 101, pp. 518-528.

3.1.180 Garbatov, Y., Saad-Eldeen, S. and Guedes Soares, C. (2015), "Hull Girder Ultimate Strength Assessment based on Experimental Results and the Dimensional Theory", *Engineering Structures*, Vol. 100, pp. 742-750.

3.1.181 Chen, B.Q., Hashemzadeh, M., Garbatov, Y. and Guedes Soares, C. (2015), "Numerical and Parametric Modeling and Analysis of Weld-induced Residual Stresses", *International Journal of Mechanics and Materials in Design*, Vol. 11, pp. 439-453.

3.1.182 Liu, B. and Guedes Soares, C. (2016), "Experimental and numerical analysis of the crushing behaviour of stiffened web girders", *International Journal of Impact Engineering*, Vol. 88, pp. 22-38.

3.1.183 Garbatov, Y. and Guedes Soares, C. (2016), "Experimental Evaluation of Ageing Marine Structures", *Transactions of the Society of Naval Architects and Marine Engineers (SNAME)*, Vol. 123, pp. 89-99.

3.1.184 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2016), "Ultimate Strength Analysis of Highly Damaged Ship Plates", *Marine Structures*, Vol. 45, pp. 63-85.

3.1.185 Ventura, M. and Guedes Soares, C. (2016), "Modelling stiffened plate panels in computer aided ship design", *Journal of Engineering for the Maritime Environment*, Vol. 230(1), pp. 55-66.

3.1.186 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2016), "Experimental Strength Assessment of Thin Steel Plates with a Central Elongated Circular Opening", *Journal of Constructional Steel Research*, Vol. 118, pp. 135-144.

3.1.187 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2016), "Experimental investigation on the residual strength of thin steel plates with a central elliptic opening and locked cracks", *Ocean Engineering*, Vol. 115, pp. 19-29.

3.1.188 Liu, B. and Guedes Soares, C. (2016), "Analytical method to determine the crushing behaviour of girders with stiffened web", *International Journal of Impact Engineering*, Vol. 93, pp. 49-61.

3.1.189 Chen, B.Q. and Guedes Soares, C. (2016), "Deformation measurements in welded plates based on close-range photogrammetry", *Journal of Engineering Manufacture*, Vol. 230(4), pp. 662-674.

3.1.190 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2016), "Evaluation of fatigue damage model predictions for fixed offshore wind turbine support structures", *International Journal of Fatigue*, Vol. 87, pp. 71-80.

3.1.191 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2016), "Strength Assessment of Steel Plates Subjected to Compressive Load and Dent Deformation", *Structure and Infrastructure Engineering*, Vol. 12(8), pp. 995-1011.

3.1.192 Liu, B. and Guedes Soares, C. (2016), "Assessment of the strength of double-hull tanker side structures in minor ship collisions", *Engineering Structures*, Vol. 120, pp. 1-12.

3.1.193 Kharghani, N. and Guedes Soares, C. (2016), "Behaviour of composite laminates with embedded delaminations", *Composite Structures*, Vol. 150, pp. 226-239.

3.1.194 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2016), "Fast Approach for Ultimate Strength Assessment of Steel Box Girders Subjected to Non-uniform Corrosion Degradation", *Corrosion Engineering, Science and Technology*, Vol. 51(1), pp. 60-76.

3.1.195 Sutherland, L.S., Si, M.F., Correia, J.R., Guedes Soares, C., Gomes, A. and Silvestre, N. (2016), "Quasi-static indentation response of pedestrian bridge multicellular pultruded GFRP deck panels", *Construction & Building Materials*, Vol. 118, pp. 307-318.

3.1.196 Garbatov, Y., Parunov, J., Kodvanj, J., Saad-Eldeen, S. and Guedes Soares, C. (2016), "Experimental assessment of tensile strength of corroded steel specimens subjected to sandblast and sandpaper cleaning", *Marine Structures*, Vol. 49, pp. 18-30.

3.1.197 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2016), "Experimental strength analysis of steel plates with a large circular opening accounting for corrosion degradation and cracks subjected to compressive load along the short edges", *Marine Structures*, Vol. 48, pp. 52-67.

3.1.198 Estefen. S.F., Chujutalli, J.H. and Guedes Soares, C. (2016), "Influence of Geometric Imperfections on the Ultimate Strength of the Double Bottom of a Suezmax Tanker", *Engineering Structures*, Vol. 127, pp. 287-303.

3.1.199 Chen, B.Q. and Guedes Soares, C. (2016), "Numerical and experimental investigation on the weld-induced deformation and residual stress in stiffened plates with brackets", *International Journal of Advanced Manufacturing Technology*, Vol. 86, pp. 2723-2733.

3.1.200 Chen, B.Q. and Guedes Soares, C. (2016), "Effect of welding sequence on temperature distribution, distortions, and residual stress of stiffened plates", *International Journal of Advanced Manufacturing Technology*, Vol. 86, pp. 3145-3156.

3.1.201 Garbatov, Y., Guedes Soares, C. and Masubuchi, K. (2016), "Residual Stresses and Distortion in Welds", *Reference Module in Materials Science and Materials Engineering*, pp. 1-30.

3.1.202 Wang, Z., Liu, K., Ji, CY., Chen, D., Wang, G. and Guedes Soares, C. (2016), "Experimental and numerical investigations on the T joint of jack-up platform laterally punched by a knife edge indenter", *Ocean Engineering*, Vol. 127, pp. 212-225.

3.1.203 Zhang. J., Shi, X.H. and Guedes Soares, C. (2016), "Experimental study on the response of multi-layered protective structure subjected to underwater contact explosions", *International Journal of Impact Engineering*, Vol. 100, pp. 23-34.

3.1.204 Valido, A.J. and Barradas Cardoso, J. (2016), "Design variation of thin-walled composite beam cross-section properties", *Multidiscipline Modeling in Materials and Structures*, Vol. 12(3), pp. 558-576.

3.1.205 Chen, B.Q. and Guedes Soares, C. (2016), "Effects of plate configurations on the weld induced deformations and strength of fillet-welded plates", *Marine Structures*, Vol. 50, pp. 243-259.

3.1.205a Adak, M. and Guedes Soares, C. (2016), "Residual deflections and stresses in a thick T-Joint plate structure", *Journal of Applied Mechanical Engineering*, Vol. 5(6), pp. 1-7.

3.1.206 Sutherland, L.S., Amado, C. and Guedes Soares, C. (2017), "Statistical experimental design techniques to investigate the strength of adhesively bonded T-joints", *Composite Structures*, Vol. 159, pp. 445-454.

3.1.207 Hashemzadeh, M., Garbatov, Y. and Guedes Soares, C. (2017), "Analytically based equations for distortion and residual stress estimations of thin butt-welded plates", *Engineering Structures*, Vol. 137, pp. 115-124.

3.1.208 Garbatov, Y., Tekgoz, M. and Guedes Soares, C. (2017), "Experimental and numerical strength assessment of stiffened plates subjected to severe non-uniform corrosion degradation and compressive load", *Ship and Offshore Structures*, Vol. 12(4), pp. 461-473.

3.1.209 Shi, X., Zhang. J. and Guedes Soares, C. (2017), "Experimental study on collapse of cracked stiffened plate with initial imperfections under compression", *Thin Walled Structures*, Vol. 114, pp. 39-51.

3.1.210 Liu, B. and Guedes Soares, C. (2017), "Influence of impact location on the plastic response and failure of rectangular cross-section tubes struck transversely by a hemispherical indenter", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 139, 021603.

3.1.211 Yue, JX., Damg, ZF. and Guedes Soares, C. (2017), "Prediction of Fatigue Crack Propagation in Bulb Stiffeners by Experimental and Numerical Methods", *International Journal of Fatigue*, Vol. 99, pp. 101-110.

3.1.212 Bahmyari, E., Khedmati, M.R. and Guedes Soares, C. (2017), "Stochastic Analysis of Moderately Thick Plates Using the Generalized Polynomial Chaos and Element Free Galerkin method", *Engineering Analysis with Boundary Elements*, Vol. 79, pp. 23-37.

3.1.213 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2017), "Experimental compressive strength analyses of high tensile steel thin-walled stiffened panels with a large lightening opening", *Thin Walled Structures*, Vol. 113, pp. 61-68.

3.1.214 Liu, B., Villavicencio, R., Zhang, S. and Guedes Soares, C. (2017), "A simple criterion to evaluate the rupture of materials in ship collision simulations", *Marine Structures*, Vol. 54, pp. 92-111.

3.1.215 Xu, M.C., Song, Z.J., Pan, J. and Guedes Soares, C. (2017), "Ultimate strength assessment of continuous stiffened panels under combined longitudinal compressive load and lateral pressure", *Ocean Engineering*, . Vol. 139, pp. 39-53.

3.1.216 Li, C.F., Ren, H.L., Zhu, Z.Y. and Guedes Soares, C. (2017), "Finite Element Analysis of the ultimate strength of aluminium-stiffended panels with fixed and floating transverse frames", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 139, 041401.

3.1.217 Liu, B., Villavicencio, R., Zhang, S. and Guedes Soares, C. (2017), "Assessment of external dynamics and internal mechanics in ship collisions", *Ocean Engineering*, Vol. 141, pp. 326-336.

3.1.218 Patel, SD. and Guedes Soares, C. (2017), "System Probability of Failure and Sensitivity Analyses of Composite Plates under Low Velocity Impact", *Composite Structures*, Vol. 180, pp. 1022-1031.

3.1.219 Zhang. J., Shi, X. and Guedes Soares, C. (2017), "Experimental analysis of residual ultimate strength of stiffened panels with pitting corrosion under compression", *Engineering Structures*, Vol. 152, pp. 70-86.

3.1.220 Sutherland, L.S.; Sá, M.F., Correia, J.R., Guedes Soares, C., Gomes, A. and Silvestre, N. (2017), "Impact response of pedestrian bridge multicellular GFRP deck panels", *Composite Structures*, Vol. 171, pp 473-485.

3.1.221 Xu, M.C., Song, Z.J., Pan, J. and Guedes Soares, C. (2017), "Study on the influence of the initial deflection and load combination on the collapse behaviour of continuous stiffened panels", *International Journal of Steel Structures*, Vol. 17(4), pp. 1427-1442.

3.1.222 Liu, B., Wu, W.G. and Guedes Soares, C. (2018), "Ultimate strength analysis of a SWATH ship subjected to transverse loads", *Marine Structures*, Vol. 57, pp. 105-120.

3.1.223 Liu. K., Liu, B., Villavicencio, R., Wang, Z. and Guedes Soares, C. (2018), "Assessment of material strain rate effects on square steel plates under lateral dynamic impact loads", *Ships & Offshore Structures*, Vol. 13(2), p. 217-225.

3.1.224 Liu, B., Villavicencio, R. and Guedes Soares, C. (2018), "Experimental and numerical analysis of residual stresses and strains induced during cold bending of thick steel plates", *Marine Structures*, Vol. 57, pp. 121-132.

3.1.225 Chen, B.Q., Hashemzadeh, M. and Guedes Soares, C. (2018), "Validation of numerical simulations with X-ray diffraction measurements of residual stress in butt-welded steel plates", *Ships & Offshore Structures*, Vol. 13(3), pp. 273-282.

3.1.226 Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2018), "Strength assessment of a damaged container ship subjected to asymmetrical bending loadings", *Marine Structures*, Vol. 58, pp. 172-198.

3.1.227 Li, C.F., Ren, H.L., Zhu, Z.Y. and Guedes Soares, C. (2018), "Numerical investigation on the buckling behaviour of aluminium integrally stiffened panels subjected to uniaxial compressive load", *Thin-Walled Structures*, Vol. 127, pp. 221-234.

3.1.228 Kharghani, N. and Guedes Soares, C. (2018), "Experimental and numerical study of hybrid steel-FRP balcony overhang of ships under shear and bending", *Marine Structures*, Vol. 60, pp. 15-33.

3.1.229 Liu. Ka., Yan, R-J. and Guedes Soares, C. (2018), "An improved model updating technique based on modal data", *Ocean Engineering*, Vol. 154, pp. 277-287.

3.1.230 Yang, B., Wang, D-Y. and Guedes Soares, C. (2018), "Dynamic ultimate strength of outer bottom stiffened plates under in-plane compression and lateral pressure", *Ocean Engineering*, Vol. 157, pp. 44-53.

3.1.231 Sutherland, L.S. (2018), "A review of impact testing on marine composite materials: Part I – Marine impacts on marine composites", *Composite Structures*, Vol. 188, pp. 197-208.

3.1.232 Sutherland, L.S. (2018), "A review of impact testing on marine composite materials: Part II – Impact event and material parameters", *Composite Structures*, Vol. 188, pp. 503-511.

3.1.233 Sutherland, L.S. (2018), "A review of impact testing on marine composite materials: Part III – Damage tolerance and durability", *Composite Structures*, Vol. 188, pp. 512-518.

3.1.234 Yang, B., Guedes Soares, C. and Wang, D-Y. (2018), "An Empirical Formulation for Predicting the Dynamic Ultimate Strength of Rectangular Plates under In-plane Compressive Loading", *International Journal of Mechanical Sciences*, Vol. 141, pp. 213-222.

3.1.235 Yue, JX., Dong, Y. and Guedes Soares, C. (2018), "An Experimental-Finite Element Method Based on Beach Marks to Determine Fatigue Crack Growth Rate in Thick Plates with Varying Stress States", *Engineering Fracture Mechanics*, Vol. 196, pp. 123-141.

3.1.237 Ringsberg, J.W., Amdahl, J., Chen, B.Q., Cho, S.R., Ehlers, S., Hu, ZQ., Kõrgesaar, M., Liu, B., Nicklas, K., Parunov, J., Samuelides, M., Guedes Soares, C., Tabri, K., Quinton, B.W., Yamada, Y. and Zhang, SM. (2018), "MARSTRUCT benchmark study on collision simulations", *Marine Structures*, Vol. 59, pp. 142-157.

3.1.238 Liu. K., Liu, B., Wang, Z., Wang, G. and Guedes Soares, C. (2018), "An experimental and numerical study on the behaviour of tubular components and T-joints subjected to transverse impact loading", *International Journal of Impact Engineering*, Vol. 120, pp.16-30.

3.1.239 Patel, SD. and Guedes Soares, C. (2018), "Reliability assessment of glass epoxy composite plates due to low velocity impact", *Composite Structures*, Vol. 200, pp. 659-668.

3.1.240 Dong, Y., Garbatov, Y. and Guedes Soares, C. (2018), "Fatigue crack initiation assessment of welded joints accounting for residual stress", *Fatigue & Fracture of Engineering Materials & Structures*, Vol. 41, pp. 1823-1837.

3.1.241 Dong, Y., Garbatov, Y. and Guedes Soares, C. (2018), "A two-phase approach to estimate fatigue crack initiation and propagation lives of notched structural components", *International Journal of Fatigue*, Vol. 116, pp. 523-534.

3.1.242 Zhang, X., Duan, M.G. and Guedes Soares, C. (2018), "Lateral buckling critical force for submarine pipe-in-pipe pipelines", *Applied Ocean Research*, Vol. 78, pp. 99-109.

3.1.243 Woloszyka, K., Kahsina, M. and Garbatov, Y. (2018), "Numerical assessment of ultimate strength of severe corroded stiffened plates", *Engineering Structures*, Vol. 168, pp. 346-354.

3.1.244 Hashemzadeh, M., Chen, B.Q. and Guedes Soares, C. (2018), "Evaluation of multi-pass welding induced residual stress using numerical and experimental approaches", *Ships & Offshore Structures*, Vol. 13(8), pp. 847-856.

3.1.245 Chen, B.Q. and Guedes Soares, C. (2018), "A simplified model for the effect of weld induced residual stresses on the axial ultimate strength of stiffened plates", *Journal of Marine Science and Application*, Vol. 17, pp. 57-67.

3.1.246 Zhang, X., Guedes Soares, C., An, C. and Duan, M. G. (2018), "An Unified formula for the critical force of lateral buckling of imperfect submarine pipelines", *Ocean Engineering*, Vol. 166, pp. 324-335.

3.1.247 Chujutalli, J.H., Estefen. S.F. and Guedes Soares, C. (2018), "Experimental and numerical analysis of small-scale panels with indented stiffeners", *Journal of Constructional Steel Research*, Vol. 150, pp. 7-22.

3.1.248 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2018), "Structural capacity of plates and stiffened panels of different materials with opening", *Ocean Engineering*, Vol. 167, pp. 45-54.

3.1.249 Liu. Ka., Yan, R-J. e Guedes Soares, C. (2018), "Optimal sensor placement and assessment for modal identification", *Ocean Engineering*, Vol. 165, pp. 209-220.

3.1.250 Kharghani, N. e Guedes Soares, C. (2018), "Experimental, numerical and analytical study of bending of rectangular composite laminates", *European Journal of Mechanics A- Solids (EJMAS)*, Vol. 72, pp. 155-174.

3.1.251 Liu. Ka., Yan, R-J. and Guedes Soares, C. (2018), "Damage identification in offshore jacket structures based on modal flexibility", *Ocean Engineering*, Vol. 170, pp. 171-185.

3.1.252 Liu, B., Garbatov, Y., Zhu, L. and Guedes Soares, C. (2018), "Numerical assessment of the structural crashworthiness of corroded ship hulls in stranding", *Ocean Engineering*, Vol. 170, pp. 276-285.

3.1.253 Li, C.F., Fu, P., Ren, H.L., Xu, W.J. and Guedes Soares, C. (2018), "Ultimate bearing capacity assessment of hull girder with Asymmetric cross-section", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 140, 061103.

3.1.254 Gordo, J.M. (2018), "Dependence of ultimate bending moment of box girders on panel's slenderness", *International Journal of Engineering Innovation & Research*, Vol. 7(4), pp. 216-219.

3.1.255 Oliveria, A. and Gordo, J.M. (2018), "Lean tools applied to a shipbuilding panel line assembling process", *Brodogradnja*, Vol. 69(4), pp. 53-64.

3.1.256 Moita, P.J., Madeira, J.F.A., Valido, A.J. and Barradas Cardoso, J. (2018), "Optimal multiobjective design of a vehicle restraint system using pre-acting control: A limiting performance analysis", *Multidiscipline Modeling in Materials and Structures*, Vol. 14(4), pp. 756-768.

3.1.257 Mikulić, A., Parunov, J. and Guedes Soares, C. (2018), "Wave-induced vertical motions and bending moments in damaged ships". *Journal Marine Science and Application*, Vol. 17, pp. 389-405.

3.1.258 Chichi, D. and Garbatov, Y. (2018), "Reinforcement of ageing ship structures", *International Journal of Maritime Engineering*, Vol. 160(Part A3), pp. A257-A266.

3.1.259 Sutherland, L.S. (2018), "A review of impact testing on marine composite materials: Part IV – Scaling, strain rate and marine-type laminates", *Composite Structures*, Vol. 200, pp. 929-938.

3.1.260 Shi, X.H., Zhang. J. and Guedes Soares, C. (2018), "Numerical assessment of experiments on the ultimate strength of stiffened panels with pitting corrosion under compression2, *Thin-Walled Structures*, Vol. 133, pp. 52-70.

3.1.261 Dong, Y. and Guedes Soares, C. (2019), "Stress distribution and fatigue crack propagation analyses in welded joints", *Fatigue & Fracture of Engineering Materials & Structures*, Vol. 42, pp. 69-83.

3.1.262 Chen, B.Q., Liu, B. and Guedes Soares, C. (2019), "Experimental and numerical investigations on the influence of stiffeners on the crushing resistance of web girders in ship grounding", *Marine Structures*, Vol. 63, pp. 351-363.

3.1.263 Kharghani, N., Guedes Soares, C. and Tsouvalis, N.G. (2019), "Experimental and numerical study of the bolt reinforcement of a composite-to-steel butt-joint under three-point bending test", *Marine Structures*, Vol. 63, pp. 384-403.

3.1.264 Pinheiro, B., Guedes Soares, C. and Pasqualino, I.P. (2019), "Generalized expressions for stress concentration factors of pipeline plain dents under cyclic internal pressure", *International Journal of Pressure Vessels and Piping*, Vol. 170, pp. 82-91.

3.1.265 Garbatov, Y., Saad-Eldeen, S., Guedes Soares, C., Parunov, J. and Kodvanj, J. (2019), "Tensile test analysis of corroded cleaned aged steel specimens", *Corrosion Engineering, Science and Technology*, Vol. 54(2), pp. 154-162.

3.1.266 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2019), "Uncertainty analysis of soil-pile interactions of monopile offshore wind turbine support structures", *Applied Ocean Research*, Vol. 82, pp. 74-88.

3.1.267 Liu, B., Villavicencio, R., Liu, K., Zhu, L. and Guedes Soares, C. (2019), "Response of an aluminum stiffened plate under extreme slamming loadings", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 141, 051606.

3.1.268 Patel, SD., Vusa, V.R. and Guedes Soares, C. (2019), "Crashworthiness analysis of polymer composites under axial and oblique impact loading", *International Journal of Mechanical Sciences*, Vol. 156, pp. 221-234.

3.1.269 Yang, B., Guedes Soares, C. and Wang, D-Y. (2019), "Dynamic ultimate compressive strength of simply supported rectangular plates under impact loading", *Marine Structures*, Vol. 66, pp. 258-271.

3.1.270 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2019), "Numerical and experimental study of ultimate strength of a monopile structure", *Engineering Structures*, Vol. 194, pp. 290-299.

3.1.271 Zhang, X. and Guedes Soares, C. (2019), "Lateral buckling analysis of subsea pipelines on nonlinear foundation", *Ocean Engineering*, Vol. 186, 106085.

3.1.272 Alizadeh, F. and Guedes Soares, C. (2019), "Experimental and numerical investigation of the fracture toughness of Glass/Vinylester composite laminates", *European Journal of Mechanics A- Solids (EJMAS)*, Vol. 73, pp. 204-211.

3.1.273 Dong, Y., Teixeira, A.P. and Guedes Soares, C. (2019), "Fatigue reliability analysis of butt welded joints with misalignments based on hotspot stress approach", *Marine Structures*, Vol. 65, pp. 215-228.

3.1.274 Sutherland, L.S., Amado, C. and Guedes Soares, C. (2019), "Statistical analyses of the effects of bonding parameters and fabrication robustness on the strength of adhesive T-joints", *Composites Part B*, Vol. 175, 107063.

3.1.275 Liu, B. and Guedes Soares, C. (2019), "Effect of strain rate on dynamic responses of laterally impacted steel plates", *International Journal of Mechanical Sciences*, Vol. 160, pp. 307-317.

3.1.276 Kharghani, N., Alizadeh, F., Guedes Soares, C. and Tsouvalis, N.G. (2019), "Experimental and numerical study of a composite-to-steel joint under bending and torsion loads", *Journal of Engineering for the Maritime Environment*, Vol. 233(3), pp. 722-734.

3.1.277 Yin, QL., Dong, S., Jiang, F.Y. and Guedes Soares, C. (2019), "Spudcan Penetration Simulation Using CEL Method with Thermo-Mechanical Coupled Analysis", *Journal of Ocean University of China*, Vol. 18(2), pp. 317-327.

3.1.278 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2019), "Risk-based life-cycle assessment of offshore wind turbine support structures accounting for economic constraints", *Structural Safety*, Vol. 81, 101867.

3.1.279 Kharghani, N. and Guedes Soares, C. (2019), "Mechanical properties evaluation of the components of a failed hybrid steel-FRP balcony overhang in ships", *Marine Structures*, Vol. 68, 102647.

3.1.280 Chenggong, S., Zheng, M., Guedes Soares, C., Menglan, D., Yi, W. and Darlington Uche, O.M. (2019), "Theoretical prediction model for indentation of pipe-in-pipe structures", *Applied Ocean Research*, Vol. 92, 101940.

3.1.281 Kharghani, N. and Guedes Soares, C. (2019), "Analytical and experimental study of the ultimate strength of delaminated composite laminates under compressive loading", *Composite Structures*, Vol. 228, 111355).

3.1.282 Xu, SX., Liu, B., Garbatov, Y., Wu, W.G. and Guedes Soares, C. (2019), "Experimental and numerical analysis of ultimate strength of inland catamaran subjected to vertical bending moment", *Ocean Engineering*, Vol. 188, 106320.

3.1.283 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2019), "Buckling collapse tests of deteriorated steel plates with multiple circular openings", *Ocean Engineering*, Vol. 172, pp. 523-530.

3.1.284 Garrido, M., Teixeira, R., Correia, J.R. and Sutherland, L.S. (2019), "Quasi-static indentation and impact in glass-fibre reinforced polymer sandwich panels for civil and ocean engineering applications", *Sandwich Structures and Materials*, Vol. 0(0), pp. 1-28.

3.1.285 Chichi, D. and Garbatov, Y. (2019), "Retrofitting Analysis of Tanker Ship Hull Structure Subjected to Corrosion", *Brodogradnja*, Vol. 70(2), pp. 87-109.

3.1.286 Woloszyk, K. and Garbatov, Y. (2019), "Structural Reliability Assessment of Corroded Tanker Ship Based on Experimentally Estimated Ultimate Strength", *Polish Maritime Research*, Vol. 26(2), pp. 47-54.

3.1.287 Jafaryeganeh, H., Ventura, M. and Guedes Soares, C. (2019), "Multi-objective optimization of internal compartment layout of oil tankers", *Journal of Ship Production and Design*, Vol. 35(4), pp. 374-385.

3.1.288 Jiang, F.Y., Dong, S., Zhao, Y.L., Xie, Z. and Guedes Soares, C. (2019), "Investigation on the deformation response of submarine pipelines subjected to impact loads by dropped objects", *Ocean Engineering*, Vol. 194, 106638.

3.1.289 Garbatov, Y. and Guedes Soares, C. (2019), "Spatial corrosion wastage modelling of steel plates exposed to marine environments", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 141(3), 031602.

3.1.290 Chen, B.Q. and Guedes Soares, C. (2019), "Numerical investigation on weld-induced imperfections in aluminium ship plates", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 141(6), 061605.

3.1.291 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2019), "Ultimate strength assessment of jacket offshore wind turbine support structures subjected to progressive bending loading", *Ships & Offshore Structures*, Vol. 14(2), pp. 165-175.

3.1.292 Shi, X.H., Zhang. J. and Guedes Soares, C. (2019), "Numerical assessment of experiments on the residual ultimate strength of stiffened plates with a crack", *Ocean Engineering*, Vol. 171, pp. 443-457.

3.1.293 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2020), "Experimental failure assessment of high tensile stiffened plates with openings", *Engineering Structures*, Vol. 206, 110121.

3.1.294 Guedes Soares, C. (2020), "Ultimate Strength of Ships and Offshore Structures", *Journal of Marine Science and Application*, Vol. 19, pp. 509-511.

3.1.295 Doan, V.T., Liu, B., Garbatov, Y., Wu, WG. and Guedes Soares, C. (2020), "Strength assessment of aluminium and steel stiffened panels with openings on longitudinal girders", *Ocean Engineering*, Vol. 200, 107047).

3.1.296 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2020), "Strength assessment of jacket offshore wind turbine support structure accounting for rupture", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 142, 011902.

3.1.297 Jafaryeganeh, H., Ventura, M. and Guedes Soares, C. (2020), "Application of multi-criteria decision making methods for selection of ship internal layout design from a Pareto optimal set", *Ocean Engineering*, Vol. 202, 107151.

3.1.298 Jafaryeganeh, H. and Guedes Soares, C. (2020), "A technique of panels cutting for modification of hull geometry hydrodynamic models", *International Journal of Maritime Engineering*, Vol. 162(Part A2), pp. A219 - A230.

3.1.299 Garbatov, Y. (2020), "Special Issue: Carlos Guedes Soares Honoring Symposium", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 142, 030301.

3.1.300 Kharghani, N. and Guedes Soares, C. (2020), "Analysis of composite laminates containing through-the-width and embedded delamination under bending using layerwise HSDT", *European Journal of Mechanics / A Solids*, Vol. 82, 104003.

3.1.301 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2020), "Risk-based maintenance planning of offshore wind turbine farms", *Reliability Engineering and System Safety*, Vol. 202, 107062.

3.1.302 Li, MZ., Guedes Soares, C. and Yan, RJ. (2020), "A novel shear deformation theory for static analysis of functionally graded plates", *Composite Structures*, Vol. 250, 112559.

3.1.303 Kharghani, N. and Guedes Soares, C. (2020), "Experimental, numerical and analytical study of buckling of rectangular composite laminates", *European Journal of Mechanics / A Solids*, Vol. 79, 103869.

3.1.304 Chujutalli, J.H., Estefen. S.F. and Guedes Soares, C. (2020), "Indentation Parameters Influence on the Ultimate Strength of Panels for Different Stiffeners", *Journal of Constructional Steel Research*, Vol. 170, 106097.

3.1.305 Tekgoz, M. and Garbatov, Y. (2020), "Strength Assessment of Rectangular Plates Subjected to Extreme Cyclic Load Reversals", *Journal of Marine Science and Engineering*, Vol. 8, 65.

3.1.306 Woloszyk, K. and Garbatov, Y. (2020), "Random field modelling of mechanical behaviour of corroded thin steel plate specimens", *Engineering Structures*, Vol. 212, 110544.

3.1.307 Woloszyk, K. and Garbatov, Y. (2020), "An enhanced method in predicting tensile behaviour of corroded thick steel plate specimens by using random field approach", *Ocean Engineering*, Vol. 213, 107803.

3.1.308 Yeter, B., Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2020), "Fragility analysis of an ageing monopile offshore wind turbine subjected to simultaneous wind and seismic load", *Safety in Extreme Environments*, Vol. 2, pp. 155-170.

3.1.309 Li, S.S., Dong, Y. and Guedes Soares, C. (2020), "A procedure to generate design load-time histories for fatigue strength assessment of offshore structures", *Ocean Engineering*, Vol. 213, 107707.

3.1.310 Liu, B. and Guedes Soares, C. (2020), "Ultimate strength assessment of ship hull structures subjected to cyclic bending moments", *Ocean Engineering*, Vol. 215, 107685.

3.1.311 Xu, SX., Lin, JP., Liu, B., Garbatov, Y., Wang, Y. and Guedes Soares, C. (2020), "Experimental and numerical buckling analysis of cylindrical pressure hulls with multi-circular openings", *Ocean Engineering*, Vol. 214, 107689.

3.1.312 Jafaryeganeh, H., Ventura, M. and Guedes Soares, C. (2020), "Robust-based optimization of the hull internal layout of oil tanker", *Ocean Engineering*, Vol. 216, 107846.

3.1.313 Gordo, J.M. (2020), "Effect of Residual Stresses on the Elastoplastic Behavior of Welded Steel Plates", *Journal of Marine Science and Engineering*, Vol. 8, 702.

3.1.314 Wang, YT., Liu, J.J., Hu, J.J., Garbatov, Y. and Guedes Soares, C. (2020), "Fatigue strength of EH36 steel welded joints and base material at low-temperature", *International Journal of Fatigue*, Vol. 142, 105896.

3.1.315 Chen, B.Q. and Guedes Soares, C. (2020), "Experimental and numerical investigation on welding simulation of long stiffened steel plate specimen", *Marine Structures*, Vol. 75, 102824.

3.1.316 Jafaryeganeh, H., Ventura, M. and Guedes Soares, C. (2020), "Effect of normalization techniques in multi-criteria decision making methods for the design of ship internal layout from a Pareto optimal set", *Structural and Multidisciplinary Optimization*, Vo. 62, pp. 1849-1863.

3.1.317 Zhang, X., Chen, B.Q. and Guedes Soares, C. (2020), "Effect of non-symmetrical corrosion imperfection on the collapse pressure of subsea pipelines", *Marine Structures*, Vol. 73, 102806.

3.1.318 Wang, ZK., Tang, YG., Yang, J.G. and Guedes Soares, C. (2020), "Analytical study of thermal upheaval buckling for free spanning pipelines", *Ocean Engineering*, Vol. 218, 108220.

3.1.319 Li, C.F., Ren, H.L., Zhu, Z.Y., Feng, G.Q., Fu, P. and Guedes Soares, C. (2020), "Influence of Model Extension and Boundary Conditions on the Buckling Behaviour of Aluminium Integrally Stiffened Panels under Uniaxial Compressive Loading", *Ocean Engineering*, Vol. 216, 108066.

3.1.320 Liu, B., Wang, S., Villavicencio, R. and Guedes Soares, C. (2020), "Slamming load and hydroelastic structural response of bow flare areas of aluminium fast displacement crafts", *Ocean Engineering*, Vol. 218, 108207.

3.1.321 Woloszyk, K. and Garbatov, Y. (2020), "Analysis of ultimate compressive strength of cracked plates with the use of DOE techniques", *Polish Maritime Research*, Vol. 27, pp. 109-120.

3.1.322 Woloszyk, K. and Garbatov, Y. (2020), "Reliability of corroded stiffened plate subjected to uniaxial compressive loading", *International Journal of Maritime Engineering*, Vol. 162, pp. A421-A430.

3.1.323 Woloszyk, K. and Garbatov, Y. (2020), "Experimental and numerical investigations of ultimate strength of imperfect stiffened plates of different slenderness", *Polish Maritime Research*, Vol. 27, pp. 120-129.

3.1.324 Liu, B., Doan, V.T., Garbatov, Y., Wu, WG. and Guedes Soares, C. (2020), "Study on ultimate compressive strength of aluminium-alloy plates and stiffened panels", *Journal of Marine Science and Application*, Vol. 19, pp. 534-552.

3.1.325 Al-Hamati, A.A., Duan, M.G., An, C., Guedes Soares, C. and Estefen, S.F. (2020), "Buckling properties of a Subsea Function Chamber for oil /gas processing in deep-waters", *Journal of Marine Science and Application*, Vol. 19, pp. 642-657.

3.1.326 Xu, Wei and Guedes Soares, C. (2020), "Numerical investigation on the ultimate strength of box beams with impact damage", *Journal of Marine Science and Application*, Vol. 19, pp. 705-716.

3.1.327 Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2020), "Review of ultimate strength assessment of ageing and damaged ship structures", *Journal of Marine Science and Application*, Vol. 19(4), pp. 512-533.

3.1.328 Wang, YT., Liu, J.J., Hu, J.J., Garbatov, Y. and Guedes Soares, C. (2021), "Fatigue strength of EH36 steel welded joints and base material at low-temperature", *International Journal of Fatigue*, Vol. 142, 105896.

3.1.329 Chen, B.Q. and Guedes Soares, C. (2021), "Experimental and numerical investigation on welding simulation of long stiffened steel plate specimen", *Marine Structures*, Vol. 75, pp. 102824.

3.1.330 He, X. and Guedes Soares, C. (2021), "Experimental study on the dynamic behavior of beams under repeated impacts", *International Journal of Impact Engineering*, Vol. 147, 103724.

3.1.331 Duan, M.G., Zhang, K., Guedes Soares, C. and Paik, J.K. (2021), "Theoretical Investigation on Hub Structure Design of Subsea Connectors", *Thin-Walled Structures*, Vol. 159, 107036.

3.1.332 Liu, B., Villavicencio, R., Terndrup Pedersen, P. and Guedes Soares, C. (2021), "Analysis of structural crashworthiness of double-hull ships in collision and grounding", *Marine Structures*, Vol. 76, 102898.

3.1.333 Wang, ZK., Tang, YG. and Guedes Soares, C. (2021), "Imperfection study on lateral thermal buckling of subsea pipeline triggered by a distributed buoyancy section", *Marine Structures*, Vol. 76, 102916.

3.1.334 Xu, M.C. and Guedes Soares, C. (2021), "Experimental evaluation on the ultimate strength of stiffened panels under longitudinal compression", *Ocean Engineering*, Vol. 220, 108496.

3.1.335 Wang, ZK., Tang, YG. and Guedes Soares, C. (2021), "Analytical and numerical study on lateral buckling of imperfect subsea pipelines with nonlinear lateral pipe-soil interaction model", *Ocean Engineering*, Vol. 221, 108495.

3.1.336 Xu, M.C. and Guedes Soares, C. (2021), "Numerical study on the influence of experimental conditions on the collapse behaviour of stiffened panels", *Ocean Engineering*, Vol. 220, 108410.

3.1.337 Li, MZ., Yan, RJ., Xu, L. and Guedes Soares, C. (2021), "A general framework of higher-order shear deformation theories with a novel unified plate model for composite laminated and FGM plates", *Composite Structures*, Vol. 261, 113560.

3.1.338 Alizadeh, F. and Guedes Soares, C. (2021), "Influence of long-term moisture exposure and impact damage on the residual compressive strength of Glass-reinforced Vinylester", *Composite Structures*, Vol. 260, 113525.

3.1.339 Woloszyk, K., Bielski, P.M., Garbatov, Y. and Mikulski, T. (2021), "Photogrammetry image-based approach for imperfect structure modelling and FE analysis", *Ocean Engineering*, Vol. 223, 108665.

3.1.340 Li, MZ., Yan, RJ. and Guedes Soares, C. (2021), "Free vibration of advanced composite plates using a new higher order shear deformation theory", *European Journal of Mechanics / A Solids*, Vol. 88, 104236.

3.1.341 Li, MZ. Guedes Soares, C. and Yan, RJ. (2021), "Free vibration analysis of FGM plates on Winkler/Pasternak/Kerr foundation by using a simple quasi-3D HSDT", *Composite Structures*, Vol. 264, 113643.

3.1.342 Shi, X.H., Hu, ZQ., Zhang. J. and Guedes Soares, C. (2021), "Ultimate strength of a cracked stiffened panel repaired by CFRP and stop holes", *Ocean Engineering*, Vol. 226, 108850.

3.1.343 Liu, B., Wang, G., Chen, B.Q. and Guedes Soares, C. (2021), "Experimental, numerical and analytical analysis of the penetration of a scaled double-hull tanker side structure", *Marine Structures*, Vol. 78, 103018.

3.1.344 Wang, ZK., Tang, YG., Duan, N. and Guedes Soares, C. (2021), "Controlled lateral buckling of subsea pipelines triggered by imposed residual initial imperfections", *Ocean Engineering*, Vol. 233, 109124.

3.1.345 Hashemzadeh, M., Garbatov, Y. and Guedes Soares, C. (2021), "Welding-induced residual stresses and distortions of butt-welded corroded and intact plates", *Marine Structures*, Vol. 79, 103041.

3.1.346 Zhang, J., Wang, ZK. and Guedes Soares, C. (2021), "Lateral buckling of subsea pipelines triggered by sleeper with lateral constraint", *Ocean Engineering*, Vol. 234, 109306.

3.1.347 Li, RX., Chen, B.Q. and Guedes Soares, C. (2021), "Design equation for the effect of ovality on the collapse strength of sandwich pipes", *Ocean Engineering*, Vol. 235, 109367.

3.1.348 Kodvanj, J., Garbatov, Y., Guedes Soares, C. and Parunov, J. (2021), "Numerical analysis of stress concentration in non-uniformly corroded small scale specimens", *Journal of Marine Science and Application*, Vol. 20, pp. 1-9.

3.1.349 Liu, B., Liu, K., Villavicencio, R., Dong, A. and Guedes Soares, C. (2021), "Experimental and numerical analysis of the penetration of welded aluminium alloy panels", *Ships & Offshore Structures*, Vol. 16(5), pp. 492-504.

3.1.350 Dong, Y., Garbatov, Y. and Guedes Soares, C. (2021), "Fatigue strength assessment of butt-welded joints in ship structures based on time-domain strain approach", *Journal of Ship Research*, Vol. 65(2), pp. 123-138.

3.1.351 Li, RX. and Guedes Soares, C. (2021), "Numerical study on the effects of multiple initial defects on the collapse strength of pipelines under external pressure", *International Journal of Pressure Vessels and Piping*, Vol. 194, 104484.

3.1.352 Yeter, B. and Garbatov, Y. (2021), "Optimal Life Extension Management of Offshore Wind Farms Based on the Modern Portfolio Theory", *Oceans*, Vol. 2, pp. 566-582.

3.1.353 Liu, B., Yao, XN., Lin, YS., Wu, WG. and Guedes Soares, C. (2021), "Experimental and numerical analysis of ultimate compressive strength of long-span stiffened panels", *Ocean Engineering*, Vol. 237, 109633.

3.1.354 Woloszyk, K., Garbatov, Y., Kowalski, J. and Samson, L. (2021), "Numerical and experimental study on effect of boundary conditions during testing of stiffened plates subjected to compressive loads", *Engineering Structures*, Vol. 235, 112027.

3.1.355 Xu, L., Kharghani, N., Li, MZ. and Guedes Soares, C. (2021), "Design improvement of a composite-to-steel butt-joint based on finite element analysis", *Ocean Engineering*, Vol. 238, 109771.

3.1.356 Wang, ZK. and Guedes Soares, C. (2021), "Effect of nonlinear pipe-soil interaction on lateral buckling of subsea pipelines triggered by a distributed buoyancy section", *Applied Ocean Research*, Vol. 115, 102854.

3.1.357 Santos, F.A., Rebelo, H., Coutinho, C., Sutherland, L.S., Cismasiu, C., Farina, I. and Fraternali, F. (2021), "Low velocity impact response of 3D printed structures formed by cellular metamaterials and stiffening plates: PLA vs. PETg", *Composite Structures*, Vol. 256, 113128.

3.1.358 Alizadeh, F., Kharghani, N. and Guedes Soares, C. (2021), "Effect of long-term moisture exposure on impact response of Glass-reinforced Vinylester", *Journal of Engineering for the Maritime Environment*, Vol. 235(4), pp. 854-865.

3.1.359 Wang, ZK. and Guedes Soares, C. (2021), "Upheaval thermal buckling of functionally graded subsea pipelines", *Applied Ocean Research*, Vol. 116, 102881.

3.1.360 Woloszyk, K. and Garbatov, Y. (2021), "Ultimate compressive strength assessment of uncleaned and cleaned corroded plates with locked crack", *Polish Maritime Research*, Vol. 28, pp. 117-127.

3.1.361 Feng, G.Q., Wang. Y.T., Garbatov, Y., Ren, H.L. and Guedes Soares, C. (2021), "Experimental and numerical analysis of crack growth in stiffened panels", *Ships & Offshore Structures*, Vol. 16(9), pp. 980-992.

3.1.362 Tekgoz, M. and Garbatov, Y. (2021), "Collapse Strength of Intact Ship Structures", *Journal of Marine Science and Engineering*, Vol. 9, 1079.

3.1.363 Woloszyk, K., Garbatov, Y. and Kowalski, J. (2021), "Indoor accelerated controlled corrosion degradation test of small- and large-scale specimens", *Ocean Engineering*, Vol. 241, 110039.

3.1.364 He, X. and Guedes Soares, C. (2021), "Numerical study on the pseudo-shakedown of beams under repeated impacts", *Ocean Engineering*, Vol. 242, 110137.

3.1.365 Calvário, M., Li, Zh. and Guedes Soares, C. (2021), "Buckling strength of a composite material wave energy converter structure under slamming loads", *Ocean Engineering*, Vol. 241, 110044.

3.1.366 Kharghani, N. and Guedes Soares, C. (2022), "Application of Layerwise HSDT and fracture analysis in the ultimate strength of composite plates with delamination in bending", *International Journal of Solids and Structures*, Vol. 234-235, 111263.

3.1.367 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2022), "Life-extension certification of offshore wind assets using unsupervised machine learning", *Reliability Engineering and System Safety*, Vol. 219, 108229.

3.1.368 Yeter, B. and Garbatov, Y. (2022), "Structural integrity assessment of fixed support structures for offshore wind turbines: A review", *Ocean Engineering*, Vol. 244, 110271.

3.1.369 Hashemzadeh, M., Garbatov, Y. and Guedes Soares, C. (2022), "Hybrid-laser welding-induced distortions and residual stresses analysis of large-scale stiffener panel", *Ocean Engineering*, Vol. 245, 110411.

3.1.370 Li, RX., Chen, B.Q. and Guedes Soares, C. (2022), "Effect of ovality length on collapse strength of imperfect sandwich pipes due to local buckling", *Journal of Maritime Science and Engineering*, Vol. 10, 12.

3.1.371 Chen, B.Q., Zhang, X. and Guedes Soares, C. (2022), "The effect of general and localized corrosions on the collapse pressure of subsea pipelines", *Ocean Engineering*, Vol. 247, 110719.

3.1.372 Garbatov, Y. and Georgiev, P. (2022), "Air Quality Dispersion Model for Defining Queuing Ships Seaport Location", *Journal of Maritime Science and Engineering*, Vol. 10(2), 140.

3.1.373 Zhao, N., Chen, B.Q., Zhou, Y-Q., Li, Z-J., Hu, J-J. and Guedes Soares, C. (2022), "Experimental and Numerical Investigation on the Ultimate Strength of a Ship Hull Girder model with Deck Openings", *Marine Structures*, Vol. 83, 103175.

3.1.374 Zhang. J., Shi, X.H., Guedes Soares, C. and Liu, JC. (2022), "Ultimate strength of stiffened panels with crack and pits under uni-axial longitudinal compression", *Ships & Offshore Structures*, Vol. 17(2), pp. 319–338.

3.1.375 Xu, SX., Wen, H., Liu, B. and Guedes Soares, C. (2022), "Experimental and numerical analysis of dynamic failure of welded aluminium alloy plates under air blast loading", *Ships & Offshore Structures*, Vol. 17(3), pp. 531-540.

3.1.376 Zima, B., Woloszyk, K. and Garbatov, Y. (2022), "Corrosion degradation monitoring of ship stiffened plates using guided wave phase velocity and constrained convex optimization method", *Ocean Engineering*, Vol. 253, 111318.

3.1.377 Woloszyk, K., Garbatov, Y. and Klosowski, P. (2022), "Stress-strain model of lower corroded steel plates of normal strength for fitness-for-purpose analyses", *Construction and Building Material*, Vol. 323, 126560.

3.1.378 Chen, B.Q., Liu, B. and Guedes Soares, C. (2022), "Experimental and numerical investigation on a double hull structure subject to collision", *Ocean Engineering*, Vol. 256, 111437.

3.1.379 Hashemzadeh, M., Garbatov, Y., Guedes Soares, C. and O'Connor, A. (2022), "Friction stir welding induced residual stresses in thick steel plates from experimental and numerical analysis", *Ships & Offshore Structures*, Vol. 17(5), pp. 1053-1061.

3.1.380 Liu, B., Dong, A., Villavicencio, R., Liu, K. and Guedes Soares, C. (2022), "Experimental and numerical study on the penetration of stiffened aluminium alloy plates punched by a hemi-cylindrical indenter", *Ships & Offshore Structures*, Vol. 17(3), pp. 492-505.

3.1.381 Chen, B.Q., Videiro, P.M. and Guedes Soares, C. (2022), "Opportunities and challenges to develop digital twins for subsea pipelines", *Journal of Maritime Science and Engineering*, Vol. 10, 739.

3.1.382 Wang, ZK. and Guedes Soares, C. (2022), "Lateral buckling of subsea pipelines triggered by a sleeper with a nonlinear pipe-soil interaction model", *Journal of Marine Science and Engineering*, Vol. 10, 757.

3.1.383 Wang, ZK., Chen, B.Q. and Guedes Soares, C. (2022), "Analytical study on the upheaval thermal buckling of sandwich pipes", *Marine Structures*, Vol. 85, 103245.

3.1.384 He, X. and Guedes Soares, C. (2022), "Pseudo-shakedown of rectangular plates under repeated impacts", *Marine Structures*, Vol. 85, 103258.

3.1.385 Li, MZ., Liu, ZP., Yan, RJ., Lu, JP. and Guedes Soares, C. (2022), "Experimental and numerical investigation on composite single-lap single-bolt sandwich joints with different geometric parameters", *Marine Structures*, Vol. 85, 103259.

3.1.386 Li, Zh., Guedes Soares, C. and Pan, G. (2022), "Buckling prediction for composite laminated cylindrical shells in underwater environment", *Ocean Engineering*, Vol. 258, 111244.

3.1.387 Zima, B., Woloszyk, K. and Garbatov, Y. (2022), "Experimental and numerical identification of corrosion degradation of ageing structural components", *Ocean Engineering*, Vol. 258, 111739.

3.1.388 Woloszyk, K. and Garbatov, Y. (2022), "Advances in modelling and analysis of strength of corroded ship structures", *Journal of Marine Science and Engineering*, Vol. 10, 807.

3.1.389 Sutherland, L.S. and Guedes Soares, C. (2022), "Impact resistance of cork-skinned marine PVC/GRP sandwich laminates", *Thin-Walled Structures*, Vol. 180, 109830.

3.1.390 Wang, ZK. and Guedes Soares, C. (2022), "Theoretical investigation on the upheaval thermal buckling of a lined subsea pipeline", *Ocean Engineering*, Vol. 261, 111843.

3.1.391 Pereira, T. and Garbatov, Y. (2022), "Multi-Attribute Decision-Making Ship Structural Design", *Journal of Marine Science and Engineering*, Vol. 10, 1046.

3.1.392 Alizadeh, F., Mazrouee, R. and Guedes Soares, C. (2022), "Numerical analysis on residual ultimate strength of composite laminates under uniaxial compressive load", *Composite Structures*, Vol. 300, 116161.

3.1.393 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2022), "Analysis of life extension performance metrics for optimal management of offshore wind assets", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 144(5), 052001.

3.1.394 He, X., Garbatov, Y. and Guedes Soares, C. (2022), "Analysis of pseudo-shakedown of rectangular plates under repeated impacts", *Ocean Engineering*, Vol. 265, 112609.

3.1.395 Karatug, C., Arslanoglu, Y. and Guedes Soares, C. (2022), "Feasibility Analysis of the Effects of Scrubber Installation on Ships", *Journal of Marine Science and Engineering*, Vol. 10, 1838.

3.1.396 Liu, B., Du, XK., Gan, J., Ao, L., Wu, W.G. and Guedes Soares, C. (2022), "Experimental and numerical analysis of ultimate compressive strength of double-deck structures with a large opening", *Ships & Offshore Structures*, Vol. 17(12), pp. 2788-2801.

3.1.397 Liu, B., Chen, C. and Garbatov, Y. (2022), "Material failure criterion in the finite element analysis of aluminium alloy plates under low-velocity impact", *Ocean Engineering*, Vol. 266, 113260.

3.1.398 Palomba, G., Scattareggia Marchese, S., Crupi, V. and Garbatov, Y. (2022), "Cost, energy efficiency and carbon footprint analysis of hybrid light-weight bulk carrier", *Journal of Marine Science and Engineering*, Vol. 10(7), 957.

3.1.399 Yue, J.X., Lei, J., Garbatov, Y. and Yang, K. (2022), "Crack Growth in Ni-Cr-Mo-V Steel Using DCTOD Elastic-Plastic Model", *Journal of Marine Science and Engineering*, Vol. 10, 1944.

3.1.400 Dong, Y., Garbatov, Y. and Guedes Soares, C. (2022), "Recent developments in fatigue assessment of ships and offshore structures", *Journal of Marine Science and Application*, Vol. 21, pp. 3.25.

3.1.401 Cardoso de Brito, M., Sutherland, L.S., Pereira, J.M.C. and Arruda, M.R. (2022), "Fluid-Structure Interaction Analyses for Hydro-Elastic Tailoring of a Windsurfer Fin", *Journal of Marine Science and Engineering*, Vol. 10, 1371.

3.1.402 Palomba, G., Epasto, G., Sutherland, L.S. and Crupi, V. (2022), "Aluminium honeycomb sandwich as a design alternative for lightweight marine structures", *Ships & Offshore Structures*, Vol. 17(10), pp. 2355-2366.

3.2 Papers in Books

3.2.1 Faulkner, D., Guedes Soares, C. and Warwick, D.M. (1987), "Modelling Requirements for Structural Design and Assessment", *Integrity of Offshore Structures-3*, Faulkner, D., Cowling, M.J. e Incecik, A. (Eds.), Elsevier Applied Science, London, Issue 3, pp. 25-54.

3.2.2 Guedes Soares, C., Soares, M.R.N. and Paiva, J.A. (1987), "Minimization of the Weight of the Primary Structure of Tankers", *Ship's Project and Onboard Systems*, *Naval Architecture and Marine Engineering in Portugal* (in Portuguese), Vol. I, Guedes Soares, C. (Ed.), Ordem dos Engenheiros, Lisbon, pp. 10.1-10.31.

3.2.3 Guedes Soares, C., Roque, R. and Guedes da Silva, A. (1990), "Considerations about the Structural Design of Fishing Vessels in Composite Materials", *The Fishing Navy, Naval Architecture and Marine Engineering in Portugal* (in Portuguese), Vol. VIII, Guedes Soares, C. (Ed.), Lisbon, pp. 28.1 - 28.36.

3.2.4 Guedes Soares, C., Costa, P.J. and Neves, R. (1992), "Experimental Study of the Mechanical Properties of Composite Materials for Fishing Vessels", *Exploring the Portuguese Exclusive Economic Zone, Naval Architecture and Marine Engineering in Portugal* (in Portuguese), Vol. IX, Guedes Soares, C. (Ed.), Lisbon, pp. 17.1-17.26.

3.2.5 Gordo, J.M. and Guedes Soares, C. (1993), "Approximate Load Shortening Curves for Stiffened Plates Under Uniaxial Compression", *Integrity of Offshore Structures-5*, Faulkner, D., Cowling, M. J., Incecik, A. and Das, P.K. (Eds.), EMAS, pp. 189-211.

3.2.6 Guedes Soares, C. and Kmiecik, M. (1995), "Influence of the Boundary Conditions on the Collapse Strength of Square Plates with Initial Imperfections", *Marine Technology and Transportation Conference*, Graczyk, T., Jastrzebski, T., Brebbia, C.A. and Burns, R. (Eds.), Computational Mechanics Publications, pp. 227-235.

3.2.7 Gordo, J.M. and Guedes Soares, C., (1997), "Collapse Strenght of Damaged Ship Sections", *Safety, Quality and Environment in the Marine Industries* (in Portuguese), Guedes Soares, C. and Monerris, A.M. (Eds.), Lisbon, pp. 27.1-27.13.

3.2.8 Gordo, J.M. and Guedes Soares, C., (2000), "Effects of the Geometry and Residual Stresses on the Compressive Strength of Stiffened Panels", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. and Beirão Reis, J. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 279-292.

3.2.9 Guedes Soares, C., Faúlha, A.Q. and Antão, R. (2000), "Behaviour of Fiber Reinforced Composite Materials Subjected to Impact", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. e J. Beirão Reis (Eds.), Edições Salamandra, Lda., Lisbon, pp. 293-310.

3.2.10 Centeno, R., Oliveira, A., Fonseca, N. and Guedes Soares, C. (2002), "Design of a Purse Seiner in Composite Materials", *The Sea, Source of Sustainable Development* (in Portuguese), Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M.B. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 95-109.

3.2.11 Dimas, D. and Guedes Soares, C. (2002), "Collision Modelling and Design of Ships", *The Sea, Source of Sustainable Development* (in Portuguese), Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M.B. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 347-368.

3.2.12 Gordo, J.M. and Guedes Soares, C. (2002), "Effect of the Initial Imperfections on the Plate Strength", *The Sea, Source of Sustainable Development* (in Portuguese), Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M.B. (Eds.), Edições Salamandra, Lda., Lisbon, 2002, pp. 385-406.

3.2.13 Leite, R., Garbatov, Y. and Guedes Soares, C. (2002), "Finite Element Analysis of a Trapezoidal Stiffener under Fadigue Load", *The Sea, Source of Sustainable Development* (in Portuguese), Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M. B. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 369-383.

3.2.14 Macário, P., Garbatov, Y. and Guedes Soares, C. (2002), "Structural analysis of a fishing vessel", *The Sea, Source of Sustainable Development* (in Portuguese), Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M.B. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 111-128.

3.2.15 Ferraris, S., Fonseca, N., Hayman, B., Hughes, O., Thiberge, E., Toyama, Y., Vredeveldt, A. and Yang, P. (2003), "Structural Design of High Speed Vehicles", *Ship and Offshore Structures Congress (ISSC 2003)*, 11-15 August, San Diego – USA, Committee V.4, Vol. 2, pp. 109-147.

3.2.16 R. Esteves and Gordo, J.M. (2004), "Vibration analysis in a self-service of a passenger ship*"*, *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda., Lisbon, pp. 285-298.

3.2.17 Esteves, R. and Gordo, J.M. (2004), "The *Comfort* Class according to the Classification Societies", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda., Lisbon, pp. 679-690.

3.2.18 Santos, J.M., Sutherland, L.S. and Guedes Soares, C. (2004), "Characterization tests of the mechanical properties of composite materials", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda., Lisbon, pp. 137-150.

3.2.19 Teixeira, A.P., Luís, R.M. and Guedes Soares, C. (2004), "Prediction of the compressive strength of corroded plates of the strength of plates with corrosion subject to impact", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda., Lisbon, pp. 271-284.

3.2.20 Dimas, D. and Guedes Soares, C. (2005), "Experimental study of failure in pre-notched beams under transverse impact", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 387-394.

3.2.21 Garbatov, Y., Santos, J.M. and Guedes Soares, C. (2005), "Effect of Truck Induced Load on Welded Structural Joints Subjected to Fatigue", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis, London-UK, Vol. 1, pp. 413-422.

3.2.22 Garbatov, Y., Tomasevic, S. and Guedes Soares, C. (2005), "Fatigue Damage Assessment of a Newly Built FPSO Hull", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*,

Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 423-428.

3.2.23 Guedes Soares, C., Teixeira, A.P., Luís, R.M., Quesnel, T., Nikolov, P.I., Steen, E., Khan, I.A., Toderan, C., Olaru, V.D., Bollero, A. and Taczala, M. (2005), "Effect of the shape of localized imperfections on the collapse strength of plates", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y., Fonseca, N. (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 429-438.

3.2.24 Sutherland, L.S. and Guedes Soares, C. (2005), "Impact on Single-Skin Marine Composites", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 535-542.

3.2.25 Santos, C. and Garbatov, Y. (2006), "Structural Analysis of the Slamming Effect on High Speed Vessels", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, pp. 717-732.

3.2.26 Gaspar, B. and Garbatov, Y. (2006), "Automating the Structural Design and Analysis of Tankers", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, pp. 747-764.

3.2.27 Gordo, J.M., Silva Carvalho, I., Leiria de Lima, J. and Guedes Soares, C. (2006), "Modelling the costs of steel cutting and welding in Ship Repair", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, pp. 905-917.

3.2.28 Dimas, D. and Guedes Soares, C. (2006), "Survey of deformations in Stiffened Panels by Digital Photography", *Innovation and Development in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, pp. 765-780.

3.2.29 Yao, T., Brunner, E., Cho, S.R., Choo, Y.S., Czujko, J., Estefen, S.F., Gordo, J.M., Hess, P.E., Haar, H., Pu, Y., Rigo, P. and Wan, Z.Q. (2006), "Ultimate Strength", *Ship and Offshore Structures Congress* (ISSC 2006), Frize, P.A. and Shenoi, R.A. (Eds.), 20-25 August, Southampton - UK, Vol. 1, Committee III.1, pp. 359-443.

3.2.30 Gordo, J.M. and Guedes Soares, C. (2007), "Experimental Evaluation of the Behaviour of a Mild Steel Box Girder under Bending Moment", *Advancements in Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 377-383.

3.2.31 Guedes Soares, C., Chen, N.-Z., Santos, F.M. and Santos, C. (2007), "An Experimental and Numerical Study on GFRP Box Girder under Pure Bending", *Advancements in Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 385-390.

3.2.32 Dimas, D. and Guedes Soares, C. (2007) "Numerical Study of the Absorbed Energy in Clamped Beams with Different Lengths under Transverse Impact", *Advancements in Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 357-366.

3.2.33 Luis, R.M., Guedes Soares, C. and Nikolov, P.I. (2007), "Collapse Strength of Longitudinal Plate Assemblies with Dimple Imperfections", *Advancements in Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 207-215.

3.2.34 Fricke, W., Bollero, A., Chirica, I., Garbatov, Y., Jancart, F., Kahl, Y., Remes, H., Rizzo, C.M., von Selle, H., Urban, A. and Wei, L. (2007), "Round Robin Study on Structural Hot-Spot and Effective Notch Stress Analysis", *Advancements in Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 159-167.

3.2.35 Garbatov, Y., Tomasevic, S. and Guedes Soares, C. (2007), "Fatigue Strength Assessment of Floating Production Storage and Unloading Vessels", *Advancements in Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 169-176.

3.2.35a Barreiros, A. and Barradas Cardoso, J. (2007), "Solution Methodologies for Stochastic Linear Programming Problems", *Evolutionary Methods for Design, Optimization and Control*, Neittaanmäki, P., Périaux, J. and Tuovinen, T. (Eds.), CIMNE, Barcelona, Spain.

3.2.36 Chakarov, K., Garbatov, Y. and Guedes Soares, C. (2008), "Hot-Spot Stress Analysis of Deck Structures Subjected to Corrosion and Fatigue", *Maritime Industry, Ocean Engineering and Coastal Resources*, Guedes Soares, C. and Kolev, P. (Eds.), Taylor & Francis Group, London, UK, pp. 153-160.

3.2.37 Sutherland, L.S. and Guedes Soares, C. (2008), "Scaling of Impact on Glass-Polyester Laminated Plates", *Maritime Industry, Ocean Engineering and Coastal Resources*, Guedes Soares, C. and Kolev, P. (Editors), Taylor & Francis Group, London, UK, pp. 293-300.

3.2.38 Teixeira, A.P. and Guedes Soares, C. (2008), "Predicting the Strength of Plates with ship type Initial Imperfections", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda., Lisbon.

3.2.39 Gaspar, B., Garbatov, Y. and Guedes Soares, C. (2008), "Structural Analysis of Hull Tankers Based on the IACS Regulations", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda., Lisbon.

3.2.40 Franco, R., Sutherland, L.S. and Guedes Soares, C. (2008), "The Resin Infusion Process for Marine Application", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda., Lisbon.

3.2.41 Hussein, A.W. and Guedes Soares, C. (2009), "Sensitivity analysis of the ultimate limit state variables for a tanker and a bulk carrier", *Analysis and Design of Marine Structures*. Guedes Soares, C. and Das, P.K. (Eds.); Taylor & Francis Group, London, UK, pp. 513-522.

3.2.42 Saad-Eldeen, S. and Guedes Soares, C. (2009), "Effect of Pitting Corrosion on the Collapse Strength of Rectangular Plates under Axial Compression", *Analysis and Design of Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp 231-236.

3.2.43 Sutherland, L.S. and Guedes Soares, C. (2009), "Impact behaviour of GRP, aluminium and steel plates", *Analysis and Design of Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.); Taylor & Francis Group, London, UK, pp. 293-300.

3.2.44 Witkowska, M. and Guedes Soares, C. (2009), "Ultimate strength of stiffened plates with local damage on the stiffener", *Analysis and Design of Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 145-154.

3.2.45 Guedes Soares, C. (2009), "Evolution of the Design Process and the Codes of Ship Structures", *The 90th Anniversary Conference - Vision of Engineering*, Fakultet Strojarstva i Brodogragnje, Zagreb, Croatia, pp. 86-103.

3.2.46 Corak, M., Parunov, J., Teixeira, A. P. and Guedes Soares, C. (2010), "Performance of the Common Structural Rules design formulations for the ultimate strength of uniaxially loaded plates and stiffened panels", *Advanced Ship Design for Pollution Prevention - Ship Structural Reliability with Respect to Ultimate Strength*, Guedes Soares, C. and Parunvo, J. (Eds.), Taylor & Francis Group, London, UK, pp. 113-120.

3.2.47 Silva, J.E., Garbatov, Y. and Guedes Soares, C. (2011), "Ultimate strength assessment of ageing steel plates subjected to random non-uniform corrosion wastage", *Advances in Marine Structures*, C. Guedes Soares and W. Fricke, (Eds.), Taylor & Francis Group, London, UK, pp. 213-220.

3.2.48 Xu, M.C. and Guedes Soares, C. (2011), "Comparison of Numerical Results with Experiments on Ultimate Strength of Short Stiffened Panels", *Advances in Marine Structures*, C. Guedes Soares and W. Fricke, (Eds.), Taylor & Francis Group, London, UK, pp. 221-228.

3.2.49 Xu, M.C. and Guedes Soares, C. (2011), "Numerical study of the effect of geometry and boundary conditions on the collapse behaviour of short stiffened panels", *Advances in Marine Structures*, C. Guedes Soares and W. Fricke, (Eds.), Taylor & Francis Group, London, UK, pp. 229-237.

3.2.50 Fricke, W., Codda, M., Feltz, O., Garbatov, Y., Remes, H., Risso, G., Rizzo, C. and Romanoff, J. (2011), "Round-robin on local stress determination and fatigue assessment of load-carrying fillet-welded joints", *Advances in Marine Structures*, C. Guedes Soares and W. Fricke, (Eds.), Taylor & Francis Group, London, UK, pp. 295-302.

3.2.51 Villavicencio, R. and Guedes Soares, C. (2011), "Numerical prediction of impact loads in rectangular panels", *Advances in Marine Structures*, C. Guedes Soares and W. Fricke, (Eds.), Taylor & Francis Group, London, UK, pp. 399-409.

3.2.52 Villavicencio, R., Liu, Z., Amdahl, J. and Guedes Soares, C. (2011), "Influence of the neutral axis displacement on the residual strength of a damaged tanker double bottom structure", *Advances in Marine Structures*, C. Guedes Soares and W. Fricke, (Eds.), Taylor & Francis Group, London, UK, pp. 411-418.

3.2.53 Villavicencio, R., Sutherland, L.S. and Guedes Soares, C. (2011), "Numerical simulation of laterally impacted clamped circular steel plates", *Advances in Marine Structures*, C. Guedes Soares and W. Fricke, (Eds.), Taylor & Francis Group, London, UK, pp. 419-427.

3.2.54 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2011), "Failures mode analysis of corroded steel structures subjected to compressive load", *Advances in Marine Structures*, C. Guedes Soares and W. Fricke, (Eds.), Taylor & Francis Group, London, UK, pp. 503-510.

3.2.55 Chen, N-Z., Wang, G., Guedes Soares, C., and Teixeira, A.P. (2011), "Combination of primary loading effects under various wave scatter diagrams", *Advances in Marine Structures*, C. Guedes Soares and W. Fricke, (Eds.), Taylor & Francis Group, London, UK, pp. 651-657.

3.2.56 Garbatov, Y., Tekgoz, M. and Guedes Soares, C. (2011), "Uncertainty assessment of the ultimate strength of a stiffened panel", *Advances in Marine Structures*, C. Guedes Soares and W. Fricke, (Eds.), Taylor & Francis Group, London, UK, pp. 659-668.

3.2.57 Barradas Cardoso, J.E., Valido, A.J. and Moita, P.P. (2011), "Optimal design and control of nonlinear structures and mechanical systems", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, pp. 805-816.

3.2.58 Sutherland, L.S. and Guedes Soares, C. (2011), "Impact on Marine Composite Laminated Materials", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, pp. 979-991.

3.2.59 Teixeira, A.P., Parunov, J. and Guedes Soares, C. (2011), "Assessment of Ship Structural Safety", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, pp. 1377-1394.

3.2.60 Garbatov, Y., Rudan, S., Gaspar, B. and Guedes Soares, C. (2011), "Fatigue Assessment of Marine Structures", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, pp. 865-888.

3.2.61 Ventura, M. and Guedes Soares, C. (2011), "Geometric Modelling and Product Data Management in Ship Design", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, pp. 1019-1044.

3.2.62 Gordo, J.M., Teixeira, A.P. and Guedes Soares, C. (2011), "Ultimate strength of ship structures", *Marine Technology and Engineering*, C. Guedes Soares, Y. Garbatov, N. Fonseca, A.P. Teixeira (Eds.), Taylor & Francis Group, London, UK, pp. 889-900.

3.2.63 Lourenco, R. and Gordo, J. M. (2012), "Automatic method of shells' fairing for the application of thermal forming process", *Engenharia e Tecnologia Marítima*, C. Guedes Soares & N.A. Santos (Eds.), Salamandra Lda., Lisboa, pp. 161-170.

3.2.64 Boote, D., Beck, R., Blake, J.I.R., Flay, R., Hage, A., Jeong, H.K., Keuning, J.A., Miller, P., Sutherland, L.S. and Yan, R.J., (2012), "Committee V.8 - Yacht Design", *Proceedings of the 18th International Ship and Offshore Structures Congress (ISSC)*, 10-13 September, Rostock, Germany.

3.2.65 Villavicencio, R., Amdahl, J. and Guedes Soares, C. (2012), "Resistance of a tanker double bottom during various grounding scenarios", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 375-380.

3.2.66 Villavicencio, R. and Guedes Soares, C. (2012), "Review of material relations for marine structures collision simulations", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 381-392.

3.2.67 Villavicencio, R., Liu, B. and Guedes Soares, C. (2012), "Response of stiffeners with attached plate subjected to lateral impact", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 393-398.

3.2.68 Wang, S., Luo, HB. and Guedes Soares, C. (2012), "Explicit FE simulation of slamming load on rigid wedge with various deadrise angles during water entry", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 399-406.

3.2.69 Xu, M.C. and Guedes Soares, C. (2012), "Comparison of numerical results with experiments on ultimate strength of stocky stiffened panels", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 407-414.

3.2.70 Xu, M.C. and Guedes Soares, C. (2012), "Numerical study of the effect of geometry and boundary conditions on the collapse behaviour of long stiffened panels", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 415-422.

3.2.71 Huang, W., Garbatov, Y. and Guedes Soares, C. (2012), "Fatigue damage assessment of stiffener-frame structure", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 301-307.

3.2.72 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2012), "Influence of Weld Toe Shape and Material Models on the Ultimate Strength of a Slightly Corroded Box Girder", *Sustainable Maritime Transportation and Exploitation of Sea Resources*, E. Rizzuto & C. Guedes Soares, (Eds.), Taylor and Francis Group, pp. 401-409.

3.2.73 Adak, M. and Guedes Soares, C. (2012), "Influences of Boundary Constraints on the Residual Stresses and deformations in a High Strength Steel Plate after Welding", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 253-260.

3.2.74 Chen, B.Q., Adak, M. and Guedes Soares, C. (2012), "Numerical Investigations to Study the Effect of Weld Parameters on the Temperature-time History in steel plates", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 285-292.

3.2.75 Chen, B.Q., Garbatov, Y. and Guedes Soares, C. (2012), "Mechanical properties assessment of specimens subjected to random non-uniform general corrosion and tensile load", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 293-299.

3.2.76 Mantari, J.L., Oktem, A.S. and Guedes Soares, C. (2012), "Layerwise finite element formulation for the analysis of laminates and sandwich panels", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 323-329.

3.2.77 Mantari, J.L., Oktem, A.S. and Guedes Soares, C. (2012), "A new trigonometric shear deformation theory for sandwich and composite laminated plates", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 317-322.

3.2.78 Nguyen, K.T., Garbatov, Y. and Guedes Soares, C. (2012), "Fatigue damage assessment of a tanker structural detail based on the effective notch stress approach", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 363-373.

3.2.79 Ruas, J.C. and Ventura, M. (2012), "Non-linear optimization applied to preliminary ship design", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 79-85.

3.2.80 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2012), "FE Parameters Estimation and Analysis of Ultimate Strength of Box Girder", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 331-338.

3.2.81 Liu, B. and Guedes Soares, C. (2012), "Study on Ultimate Torsional Strength of Ship Hulls", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 309-316.

3.2.82 Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2012), "Ultimate strength assessment accounting for the effect of finite element modelling", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 353-362.

3.2.83 Gordo, J.M. (2012), "Ultimate compressive strength of double bottom under alternate cargo holds", *Engenharia e Tecnologia Marítima*, C. Guedes Soares & N.A. Santos (Eds.), Salamandra Lda., Lisboa, pp. 149-160.

3.2.83a Horn, A.M., Aihara, S., Andersen, M., Biot, M., Bohlmann, B., van der Cammen, J., Choi, B. K., Garbatov, Y., Mishra, B., Qian, X., Remes, H., Ringsbert, J., Samanta, A., Wang, D. and Zhang, S.M. (2012), "Fatigue and Fracture", *18th International Ship and Offshore Structures Congress (ISSC 2012)*, W. Fricke & R. Bronsart, (Eds.), Elsevier, pp. 365-434.

3.2.83b Schipperen, I., Andric, J., Brennan, D., Caprace, J.D., Chou, C.M., Gordo, J.M., Lee, J.H., Li, L., Liu, S., Okada, T., Pires, F. and Yu, M. (2012), "Materials and Fabrication Technology", *18th International Ship and Offshore Structures Congress (ISSC 2012)*, W. Fricke & R. Bronsart, (Eds.), Elsevier, pp. 113-152.

3.2.83c Dow, R., Ashe, G., Broekhuijsen, J., Doig, R., Fredriksen, A., Imakita, A., Jeon, W.S., Leguin, J.F., Liu, J.H., Pegg, N., Ribeiro e Silva, S., Truelock, D.W. and Viego, F. (2012), "Naval Vessels", *18th*

International Ship and Offshore Structures Congress (ISSC 2012), W. Fricke & R. Bronsart, (Eds.), Elsevier, pp. 201-242.

3.2.84 Gordo, J.M. and Guedes Soares, C. (2013), "Experiments on three mild steel box girders of different spans under pure bending moment", *Analysis and Design of Marine Structures*, C. Guedes Soares and J. Romanoff, (Eds.), Taylor & Francis, UK, pp. 337-346.

3.2.85 Liu, B., Villavicencio, R. and Guedes Soares, C. (2013), "Failure characteristics of strength-equivalent aluminium and steel plates in impact conditions", *Analysis and Design of Marine Structures*, C. Guedes Soares and J. Romanoff, (Eds.), Taylor & Francis, UK, pp. 167-174.

3.2.86 Liu, B., Villavicencio, R. and Guedes Soares, C. (2013), "Shear and tensile failure of thin aluminium plates struck by cylindrical and spherical indenters", *Analysis and Design of Marine Structures*, C. Guedes Soares and J. Romanoff, (Eds.), Taylor & Francis, UK, pp. 175-186.

3.2.87 Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2013), "Finite Element Modelling of the Ultimate Strength of Stiffened Plates with Residual Stress", *Analysis and Design of Marine Structures*, C. Guedes Soares and J. Romanoff, (Eds.), Taylor & Francis, UK, pp. 309-317.

3.2.88 Villavicencio, R. and Guedes Soares, C. (2014), "Analysis of collisions between tugs and tankers", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 405-414.

3.2.89 Ventura, M. (2014), "Ship dimensioning in the initial design", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 531-542.

3.2.90 Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2014), "Ultimate strength of a plate accounting for shakedown effect and corrosion degradation", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 395-404.

3.2.91 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2014), "Ultimate strength assessment of steel plates with a large opening", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 373-380.

3.2.92 Makouei, S.H., Teixeira, A.P. and Guedes Soares, C. (2014), "An approach to estimate the ship longitudinal strength using numerical databases of stress-strain curves of stiffened panels", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 343-352.

3.2.93 Hussein, A.W. and Guedes Soares, C. (2014), "Analysis of the relative importance of ultimate limit state variables in the reliability analysis of tankers and bulk carriers", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 711-720.

3.2.94 Hashemzadeh, M., Chen, B.Q. and Guedes Soares, C. (2014), "Comparison between Different Heat Source Types in Thin-Plate Welding Simulation", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 329-336.

3.2.95 Gordo, J.M. (2014), "Residual stresses relaxation of welded structures under alternate loading", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 317-328.

3.2.96 Chen, B.Q., Hashemzadeh, M. and Guedes Soares, C. (2014), "Numerical analysis of the effects of weld parameters on distortions and residual stresses in butt welded steel plates", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 309-320.

3.2.97 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2014), "Spectral fatigue assessment of an offshore wind turbine structure under wave and wind", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 425-434.

3.2.98 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2014), "Fatigue damage analysis of a fixed offshore wind turbine supporting structure", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 415-424.

3.2.99 Ventura, M., Soares, L., Guedes Soares, C. and Oliveira, A. (2015), "Detection and context-driven reaction to production process anomalies in shipyards", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 385-398.

3.2.100 Gordo, J.M. and Guedes Soares, C. (2015), "Experimental analysis of a box girder with double span subject to pure bending moment", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 399-405.

3.2.101 Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2015), "Ultimate strength assessment of a container ship accounting for the effect of neutral axis movement", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 417-424.

3.2.102 Liu, B. and Guedes Soares, C. (2015), "Experimental and numerical study on response of rectangular tubes subjected to transverse impact loadings", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 455-462.

3.2.103 Shi, X., Zhang. J., Teixeira, A.P. and Guedes Soares, C. (2015), "Ultimate strength of a stiffened plate with initial imperfections under complex loading", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 485-494.

3.2.104 Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2015), "Strength assessment of a stiffened panel based on the modified stress curve approach", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 503-512.

3.2.105 Chen, B.Q. and Guedes Soares, C. (2015), "Study on ultimate strength of ship plates with calculated weld-induced residual stress", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 513-522.

3.2.106 Hashemzadeh, M., Garbatov, Y. and Guedes Soares, C. (2015), "Analysis of butt-weld induced distortion accounting for the welding sequences and weld toe geometry", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 523-532.

3.2.107 Hashemzadeh, M., Garbatov, Y. and Guedes Soares, C. (2015), "Numerical investigation of the thermal fields due to the welding sequences of butt-welds", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 533-542.

3.2.108 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2015), "Compressive strength assessment of rectangular steel plates with a local dent or an opening", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 543-552.

3.2.109 Saad-Eldeen, S., Garbatov, Y. and Guedes Saores, C. (2015), "Strength assessment of wash plates subjected to combined lateral and axial loading", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 553-564.

3.2.110 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2015), "Fatigue crack growth analysis of a plate accounting for retardation effect", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 585-594.

3.2.111 Castilho, T., Sutherland, L.S. and Guedes Soares, C. (2015), "Impact resistance of marine sandwich composites", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 607-618.

3.2.112 Kharghani, N., Guedes Soares, C. and Milat, A. (2015), "Analysis of the stress distribution in a composite to steel joint", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 619-626.

3.2.113 Sutherland, L.S., Alizadeh, F. and Guedes Soares, C. (2015), "Flexural testing of sandwich laminates for steel-composite joints", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 637-646.

3.2.114 Yoshikawa, T., Bayatfar, A., Kim, B.J., Chen, C.P., Wang, D., Boulares, J., Gordo, J.M., Josefson, L., Smith, M., Kading, P., Jensen, P., Ojeda, R., Benson, S., Vhanmane, S., Zhang, S. and Jiang, X. (2015), "Ultimate Strength", *Proceedings of the 19th International Ship and Offshore Structures Congress (ISSC 2015)*, C. Guedes Soares & Y. Garbatov (Eds.), Elsevier, pp. 279-349.

3.2.115 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2015), "Low cycle fatigue assessment of offshore wind turbine monopile supporting structure subjected to wave-induced loads", Guedes Soares, C. Dejhalla R. and Pavletiæ D., (Eds.), *Towards Green Marine Technology and Transport*, Taylor & Francis Group, London, UK, pp. 287-294.

3.2.116 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2015), "Structural capacity of an aging box girder accounting for the presence of a dent", *Analysis and Design of Marine Structures*, Guedes Soares, C. & Shenoi R.A. (Eds.), Taylor & Francis, London, UK, pp. 403-414.

3.2.117 Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2015), "Strength analysis of ship shaped structures subjected to asymmetrical bending moment", *Analysis and Design of Marine Structures*, Guedes Soares, C. & Shenoi R.A. (Eds.), Taylor & Francis, London, UK, pp. 415-423.

3.2.118 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2015), "Residual strength of a severely damaged box-girder with non-uniform and inter-crystalline corrosion", *Analysis and Design of Marine Structures*, Guedes Soares, C. & Shenoi R.A. (Eds.), Taylor & Francis, London, UK, pp. 521-531.

3.2.119 Hashemzadeh, M., Garbatov, Y. and Guedes Soares, C. (2015), "Reduction in weld induced distortions of butt welded plates subjected to preventive measures", *Analysis and Design of Marine Structures*, Guedes Soares, C. & Shenoi R.A. (Eds.), Taylor & Francis, London, UK, pp. 581-588.

3.2.120 Liu, B., Garbatov, Y. and Guedes Soares, C. (2015), "Non-linear finite element analysis of crashworthy shields of offshore wind turbine supporting structures", *Analysis and Design of Marine Structures*, Guedes Soares, C. & Shenoi R.A. (Eds.), Taylor & Francis, London, UK, pp. 693-702.

3.2.121 Gaspar, B., Teixeira, A.P. and Guedes Soares, C. (2015), "Effect of the aspect ratio on the ultimate compressive strength of plate elements with non-uniform corrosion", Analysis *and Design of Marine Structures*, Guedes Soares, C. & Shenoi R.A. (Eds.), Taylor & Francis, London, UK, pp. 765-774.

3.2.122 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2015), "Assessment of the retardation of in-service cracks in offshore welded structures subjected to variable amplitude load", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 855-863.

3.2.123 Ventura, M. and Guedes Soares, C. (2015), "Integration of a voyage model concept into a ship design optimization procedure", Guedes Soares, C., Dejhalla, R. and Pavletić, D. (Eds.), *Towards Green Marine Technology and Transport*, Taylor & Francis Group, London, UK, pp. 539-550.

3.2.124 Tadros, M., Ventura, M. and Guedes Soares, C. (2015), "Numerical simulation of two-stroke marine diesel engine", *Towards Green Marine Technology and Transport*, Guedes Soares, C. Dejhalla R. and Pavletiæ D., (Eds.), Taylor & Francis Group, London, UK, pp. 609-618.

3.2.125 Dong, Y. and Guedes Soares, C. (2015), "Estimation of effective notch strain for fatigue strength assessment of welded structures under multiaxial stress state", Guedes Soares, C. Dejhalla R. and Pavletiæ D., (Eds.), *Towards Green Marine Technology and Transport*, Taylor & Francis Group, London, UK, pp. 397-406.

3.2.126 Dong, Y. and Guedes Soares, C. (2015), "On the fatigue crack initiation point of load-carrying fillet welded joints", Guedes Soares, C. Dejhalla R. and Pavletiæ D., (Eds.), *Towards Green Marine Technology and Transport*, Taylor & Francis Group, London, UK, pp. 407-418.

3.2.127 Gordo, J.M. and Guedes Soares, C. (2015), "Degradation of long plate's ultimate strength due to variation on the shape of initial imperfections", Guedes Soares, C. Dejhalla R. and Pavletiæ D., (Eds.), *Towards Green Marine Technology and Transport*, Taylor & Francis Group, London, UK, pp. 345-354.

3.2.128 Gordo, J.M. and Guedes Soares, C. (2015), "Ultimate bending moment of a double span box girder with narrow stiffener' spacing", Guedes Soares, C. Dejhalla R. and Pavletiæ D., (Eds.), *Towards Green Marine Technology and Transport*, Taylor & Francis Group, London, UK, pp. 355-363.

3.2.129 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2015), "Ultimate strength of a box girder with a large opening subjected to flooding and bending load", Guedes Soares, C. Dejhalla R. and Pavletiæ D., (Eds.), *Towards Green Marine Technology and Transport*, Taylor & Francis Group, London, UK, pp. 335-344.

3.2.130 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2015), "Ultimate strength of a corroded box girder subjected to pure bending and a non-propagating crack", Guedes Soares, C. Dejhalla R. and Pavletiæ D., (Eds.), *Towards Green Marine Technology and Transport*, Taylor & Francis Group, London, UK, pp. 373-380.

3.2.131 Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2015), "Strength assessment of a single hull damaged tanker ship subjected to asymmetrical bending loading", Guedes Soares, C. Dejhalla R. and Pavletiæ D., (Eds.), *Towards Green Marine Technology and Transport*, Taylor & Francis Group, London, UK, pp. 327-334.

3.2.132 Colette, M., Bronsart, R., Chen, Y., Erikstad, S.O., Georgiev, P., Giuglea, V., Jeong, H.K., Lazakis, I., Moro, L., Sekulski, Z., Sicchiero, M., Toyoda, M., Ventura, M. and Zanic, V. (2015), "Design Methods", *19th International Ship and Offshore Structures Congress (ISSC 2015)*, Methods", C. Guedes Soares & Y. Garbatov, (Eds.), Elsevier, pp. 459-518.

3.2.133 Guedes Soares, C. (2016), "Review of experimental and numerical work on weld induced distortions and residual stresses", *Vassilios Papazoglou - Honorary Volume*, S.A. Mavrakos, D. Pantelis N. Tsouvalis, (Eds.), pp. 377-386.

3.2.134 Alizadeh, F., Liu, B. and Guedes Soares, C. (2016), "Experimental and numerical response and failure of laterally impacted composite circular plates", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 421-428.

3.2.135 Alizadeh, F., Sutherland, L.S. and Guedes Soares, C. (2016), "Effect of vacuum bag pressure on the flexural properties of GFRP composite laminates", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 429-434.

3.2.136 Dong, Y., Garbatov, Y. and Guedes Soares, C. (2016), "Fatigue analysis and optimization of non-load-carrying fillet welded joints based on the effective notch stress approach", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 443-449.

3.2.137 Gaspar, B., Teixeira, A.P. and Guedes Soares, C. (2016), "Sensitivity analysis of the IACS-CSR buckling strength requirements for stiffened panels", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 459-470.

3.2.138 Gaspar, B., Bahmyari, E., Khedmati, M.R. and Guedes Soares, C. (2016), "Application of polynomial chaos expansions in stochastic analysis of plate elements under lateral pressure", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 471-480.

3.2.139 Hashemzadeh, M., Garbatov, Y. and Guedes Soares, C. (2016), "Reduction in welding induced residual stresses and distortions of butt welded plates subjected to heat treatments", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 481-488.

3.2.140 Jafaryeganeh, H., Teixeira, A.P. and Guedes Soares, C. (2016), "Uncertainty on the bending moment transfer functions derived by a three-dimensional linear panel method", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 295-302.

3.2.141 Jafaryeganeh, H., Ventura, M. and Guedes Soares, C. (2016), "Parametric modelling for adaptive internal compartment design of container ships", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 655-661.

3.2.142 Kharghani, N. and Guedes Soares, C. (2016), "Effect of uncertainty in the geometry and material properties on the post-buckling behavior of a composite laminate", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 497-503.

3.2.143 Liu, B., Ottazzi, A. and Guedes Soares, C. (2016), "Plastic deformation and failure of thin steel plates subjected to spherical and cylindrical indenters", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 505-512.

3.2.144 Liu, K., Liu, B., Wang, Z. and Guedes Soares, C. (2016), "Experimental and numerical analysis of a laterally impacted square steel plate", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 513-520.

3.2.145 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2016), "Emergency repair of a single hull structure with locked cracks", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 521-529.

3.2.146 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2016), "Ultimate bending moment capacity of a single hull structure with large openings in side shell", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 531-538.

3.2.147 Shi, X., Jiang, XL., Zhang, J. and Guedes Soares, C. (2016), "Residual ultimate strength of stiffened panels with pitting corrosion under compression", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 547-556.

3.2.148 Soares de Melo, D. and Garbatov, Y. (2016), "Yacht mast and rigging system software for design and analysis", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 683-691.

3.2.149 Sousa, S. and Garbatov, Y. (2016), "Coating breakdown assessment of steel plates in marine structures subjected to compressive load", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 557-568.

3.2.150 Sutherland, L.S. and Guedes Soares, C. (2016), "Investigating T-joint strength parameters using statistical experimental design and analysis techniques", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 569-574.

3.2.151 Tadros, M., Ventura, M. and Guedes Soares, C. (2016), "Assessment of the performance and the exhaust emissions of a marine diesel engine for different start angles of combustion", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 769-775.

3.2.152 Uzunoglu, E. and Guedes Soares, C. (2016), "A numerical model for compartment assessment of offshore structures with cylindrical hulls", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 693-700.

3.2.153 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2016), "Structural design of an adaptable jacket offshore wind turbine support structure for deeper waters", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 583-594.

3.2.154 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2016), "Modular jacket offshore wind turbine support structure for the Northern Portuguese coastal zone", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 655-663.

3.2.155 Kang, J.C., Sun, L.P. and Guedes Soares, C. (2016), "Fault tree analysis of the failure of floating offshore wind turbines support structures and blade systems", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 741-749.

3.2.156 Alizadeh, F., Garbatov, Y. and Guedes Soares, C. (2017), "Numerical investigation of pre-damaged composite plates subjected to compressive uniaxial load", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 841-848.

3.2.157 Alizadeh, F. and Guedes Soares, C. (2017), "Numerical analysis of mixed-mode fracture toughness of glass/vinylester composite laminates", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 329-335.

3.2.158 Barbosa, A.A., Teixeira, A.P. and Guedes Soares, C. (2017), "Strength analysis of corroded pipelines subjected to internal pressure and bending moment", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 803-811.

3.2.159 Chen, B.Q. and Guedes Soares, C. (2017), "Numerical investigation on a side-shell structure subjected to collision impact load", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 423-429.

3.2.160 Damyanliev, T., Georgiev, P. and Garbatov, Y. (2017), "Conceptual ship design framework for designing new commercial ships", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 183-191.

3.2.161 Dong, Y.; Garbatov, Y., and Guedes Soares, C. (2017), "Fatigue strength assessment of an annealed butt welded joint accounting for material inhomogeneity", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 337-347.

3.2.162 Dong, Y. and Guedes Soares, C. (2017), "Uncertainty analyses of local strain and fatigue crack initiation life of welded joints under plane strain condition", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 349-359.

3.2.163 Farajkhah, V. and Guedes Soares, C. (2017), "Finite element study on the ultimate strength of aluminum plates joined by friction stir welding", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 609-615.

3.2.164 Garbatov, Y. and Georgiev, P. (2017), "Optimal design of stiffened plate subjected to combined stochastic loads", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 243-252.

3.2.165 Gordo, J. M. (2017), "Compressive strength of double-bottom under alternate hold loading condition", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 253-261.

3.2.166 Hashemzadeh, M., Garbatov, Y. and Guedes Soares, C. (2017), "Distortion and residual stress analysis of thin butt welded plates accounting for manufacturing imperfections", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 623-630.

3.2.167 Kharghani, N., Garbatov, Y. and Guedes Soares, C. (2017), "Hotspot stress analysis of a composite T-joint accounting for geometric and surface roughness effects", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 849-858.

3.2.168 Li, S. S. and Guedes Soares, C. (2017), "A procedure to generate design load-time histories for fatigue strength assessment of offshore structures", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 13-20.

3.2.169 Lillemae-Avi, I., Remes, H., Dong, Y., Garbatov, Y., Quemener, Y., Eggert, L., Sheng, Q. and Yue, J. (2017), "Benchmark study on considering welding-induced distortion in structural stress analysis of thin-plate structures", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 387-394.

3.2.170 Patel, SD. and Guedes Soares, C. (2017), "Probability of failure of composite beams under high velocity impact", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 487-495.

3.2.171 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2017), "FE model calibration and validation of a tested plate with an opening under compressive load", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 305-312.

3.2.172 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2017), "Strength enhancement of cracked swash bulkheads of jack-up spud-can", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 763-769.

3.2.173 Shi, X.H., Wang, PX. and Guedes Soares, C. (2017), "Dynamic response of ship side structure to the collision with ice sheets", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 713-720.

3.2.174 Zhang, X., AN, C., Duan, MG. and Guedes Soares, C. (2017), "Lateral buckling and post-buckling response based on a modified nonlinear pipe-soil interaction model", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 827-837.

3.2.175 Bharadwaj, U.R., Koch, T., Frank, D., Herrera, L., Randall, G., Volbeda, C., Garbatov, Y., Hirdaris, S., Tsouvalis, N., Carneros, A., Zhou, P. and Atanasova, I. (2018), "Ship Lifecycle Software Solutions (SHIPLYS) - an overview of the project, its first phase of development and challenges", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 889-896.

3.2.176 Garbatov, Y., Ventura, M., Georgiev, P., Damyanliev, T. and Atanasova, I. (2018), "Investment cost estimate accounting for shipbuilding constraints", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 913-920.

3.2.177 Garbatov, Y., Ventura, M., Guedes Soares, C., Georgiev, P., Koch, T. and Atanasova, I. (2018), "Framework for conceptual ship design accounting for risk-based life cycle assessment", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 921-930.

3.2.178 Gordo, J.M. and Leal, M.A. (2018), "A tool for analysis of costs on the manufacturing of the hull", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 743-748.

3.2.179 Hashemzadeh, M., Garbatov, Y. and Guedes Soares, C. (2018), "Assessment of distortion and residual stresses in butt welded plates made of different steels", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 617-623.

3.2.180 Jafaryeganeh, H. and Guedes Soares, C. (2018), "Comparison of two approaches for prediction of wave induced loads in damaged ships", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 473-481.

3.2.181 Jafaryeganeh, H., Ventura, M. and Guedes Soares, C. (2018), "Parametric modelling of tanker internal compartment layout for survivability improvement within the framework of regulations", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 23-30.

3.2.182 Oliveira, A. and Gordo, J.M. (2018), "Cutting processes in shipbuilding - a case study", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 757-762.

3.2.183 Oliveira, A. and Gordo, J. M. (2018), "Implementation of new production processes in panel's line", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 763-773.

3.2.184 Rörup, J., Garbatov, Y., Dong, Y., Uzunoglu, E., Parmentier, G., Andoniu, A., Quemener, Y., Chen, K-C., Vhanmane, S., Negi, A., Parihar, Y., Villavicencio, R., Parsoya, V., Peng, L. and Yue, J. (2018), "Round robin study on spectral fatigue assessment of butt-welded joints", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 663-670.

3.2.185 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2018), "Ultimate bending capacity of multi-bay tubular reinforced structures", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 671-678.

3.2.186 Tadros, M., Ventura, M. and Guedes Soares, C. (2018), "Surrogate models of the performance and exhaust emissions of marine diesel engines for ship conceptual design", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 105-112.

3.2.187 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2018), "Probabilistic life-cycle assessment for offshore wind turbines", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1229-1237.

3.2.188 Denev, Y., Georgiev, P. and Garbatov, Y. (2018), "Analysis of multipurpose ship performance accounting for SME shipyard building limitations", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 165-174.

3.2.189 Tadros, M., Ventura, M. and Guedes Soares, C. (2018), "Optimization scheme for the selection of the propeller in ship concept design", *Progress in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor & Francis Group, London, UK, pp. 233-240.

3.2.190 Sisci, F. and Ventura, M. (2018), "Tool for initial hull structure dimensioning at ship concept", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 309-316.

3.2.191 Damyanliev, T., Georgiev, P., Atanasova, I. and Garbatov, Y. (2018), "Conceptual design of multipurpose ship and fleet accounting for SME shipyard building limitations", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 317-326.

3.2.192 Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2018), "Residual strength assessment of a grounded container ship subjected to asymmetrical bending loads", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 337-344.

3.2.193 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2018), "Failure assessment of transition piece of jacket offshore wind turbine", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 359-368.

3.2.194 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C. (2018), "Failure assessment of wash plates with different degree of openings", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 377-386.

3.2.195 Nascimento, F., Sutherland, L.S. and Garbatov, Y. (2018), "Experimental and numerical structural analysis of a windsurf fin", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 387-394.

3.2.196 Calvário, M., Teixeira, A.P. and Guedes Soares, C. (2018), "Uncentainty propagation and sensitivity analysis of a laminated composite beam", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 395-402.

3.2.197 Kharghani, N. and Guedes Soares, C. (2018), "Experimental study of the residual strength of damaged hybrid steel-FRP balcony overhangs of ships", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 403-412.

3.2.198 Oliveira, A. and Gordo, J.M. (2018), "Model to forecast times and costs of cutting, assembling and welding stages of construction of ship blocks", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 413-420.

3.2.199 Atanasova, I., Damyanliev, T., Georgiev, P. and Garbatov, Y. (2018), "Analysis of SME ship repair yard capacity in building new ships", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor & Francis Group, London, UK, pp. 431-438.

3.2.199a Garbatov, Y., As, S.K., Branner, K., Choi, B.K., Den Besten, J.H., Dong, P., Lillemae, I., Lindstrom, P., Lourenço de Souza, M., Parmentier, G., Quemener, Y., Rizzo, C.M., Rorup, J., Vhanmane, S., Villavicencio, R., Wang, F. and Yue, J. (2018), "Committee III.2 - Fatigue and Fracture", *20th International Ship and Offshore Structures Congress (ISSC 2018)*, Kaminski, M. & Rigo P. (Eds.), IOS Press Ebooks, pp. Vol 1 - 441-547 and Vol 3 - 85-108.

3.2.199b Lazakis, I., Bronsart, R., Caparace, J-D., Chen, Y., Georgiev, P., Ilnitskiy, I., Moro, L., Prebeg, P., Mendonça Santos, J., Sekulski, Z., Sicchiero, M., Sielski, R., Tang, W., Toyoda, M. and Varela, J. (2018), "Committee IV.2 - Design Methods", *20th International Ship and Offshore Structures Congress (ISSC 2018)*, Kaminski, M. & Rigo P. (Eds.), IOS Press Ebooks, pp. Vol 1 - 609-708 and Vol 3 - 131-158.

3.2.199c Truelock, D., Czaban, Z., Luo, H., Wang, X., Holtmann, M., Begovic, E., Yasuda, A., Ventura, M., Nicholls-Ee, R., Oterkus, E. and Sensharma, P. (2018), "Committee V.5 - Special Craft", *20th International Ship and Offshore Structures Congress (ISSC 2018)*, Kaminski, M. & Rigo P. (Eds.), IOS Press Ebooks, pp. Vol 2 - 279-345 and Vol 3 - 231-245.

3.2.200 Almany, N., Tekgoz, M. and Garbatov, Y. (2019), "Design of an offshore multipurpose support vessel", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 905-914.

3.2.201 Lin, Z., Zhu, L., Liu, JH. and Guedes Soares, C. (2019), "Progressive collapse analyses of a stiffened box-girder under pure bending", *Trends in Analysis and Design of Marine Structures*, Parunov, J. & Guedes Soares C. (Eds.), Taylor & Francis, London, UK, pp. 158-164.

3.2.202 Kharghani, N. and Guedes Soares, C. (2019), "Flexural Behaviour Prediction of a Conventional Composite-to-Steel Butt-Joint of Ships Using Layerwise HSDT", *Trends in Analysis and Design of Marine Structures*, Parunov, J. & Guedes Soares C. (Eds.), Taylor & Francis, London, UK, pp. 369-375.

3.2.203 Rothbarth, G.V.W. and Pinto, R.A.Q. (2019), "Fibreglass repair behaviour as a function of the scarf angle", *Trends in Analysis and Design of Marine Structures*, Parunov, J. & Guedes Soares C. (Eds.), Taylor & Francis, London, UK, pp. 385-390.

3.2.204 Liu, B., Wang, G., Chen, L., Liao, XT. and Guedes Soares, C. (2020), "Numerical analysis of ship collisions accounting for bow and side deformation interaction", *Developments in the Collision and Grounding of Ships and Offshore Structures*, C. Guedes Soares (Ed.), Taylor and Francis Group, London, pp. 57-64.

3.2.205 Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2020), "Ultimate strength assessment of square plate subjected to uni-axial dynamic load", *Developments in the Collision and Grounding of Ships and Offshore Structures*, C. Guedes Soares (Ed.), Taylor and Francis Group, London, pp. 189-196.

3.2.206 Liu, B., Dong, A., Chen, L., Liu, K. and Guedes Soares, C. (2020), "Analysis of the resistance to penetration of aluminium-alloy plates", *Developments in the Collision and Grounding of Ships and Offshore Structures*, C. Guedes Soares (Ed.), Taylor and Francis Group, London, pp. 27-33.

3.2.207 He, Xu and Guedes Soares, C. (2020), "Experimental study on the dynamic response of a beam under repeated impacts", *Developments in the Collision and Grounding of Ships and Offshore Structures*, C. Guedes Soares (Ed.), Taylor and Francis Group, London, pp. 131-138.

3.2.208 He, Xu, Guedes Soares, C. and Zhu, L. (2020), "Scaling the saturated impulse behaviour of strain-rate sensitive square plates", *Developments in the Collision and Grounding of Ships and Offshore Structures*, C. Guedes Soares (Ed.), Taylor and Francis Group, London, pp. 171-178.

3.2.209 Chen, B.Q. and Guedes Soares, C. (2020), "Numerical investigation on the influence of stiffeners on the crushing resistance of web girders in ship grounding", *Developments in the Collision and Grounding of Ships and Offshore Structures*, C. Guedes Soares (Ed.), Taylor and Francis Group, London, pp. 49-56.

3.2.210 Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2020), "Average stress-strain behaviour of stiffened plates of a box girder in the progressive collapse analysis", *Developments in the Collision and Grounding of Ships and Offshore Structures*, C. Guedes Soares (Ed.), Taylor and Francis Group, London, pp. 144-150.

3.2.211 Tekgoz, M., Almany, N. and Garbatov, Y. (2020), "Quasi-static direct strength assessment of offshore multipurpose support vessel in head sea", *Sustainable Development and Innovations in Marine Technologies*, Georgiev, P. & Guedes Soares C. (Eds.), Taylor & Francis Group, London, pp. 415-422.

3.2.212 Georgiev, P., Garbatov, Y., Kirilov, L. and Denev, Y. (2020), "Multi attribute design decision solution of MPV accounting for shipyard building constraints", *Sustainable Development and Innovations in Marine Technologies*, Georgiev, P. & Guedes Soares C. (Eds.), Taylor & Francis Group, London, pp. 354-361.

3.2.213 Woloszyk, K. and Garbatov, Y. (2020), "FE analysis of support-specimen interaction of compressive experimental test", *Sustainable Development and Innovations in Marine Technologies*, Georgiev, P. & Guedes Soares C. (Eds.), Taylor and Francis Group, London, pp. 423-428.

3.2.214 Woloszyk, K. and Garbatov, Y. (2020), "Uncertainty assessment of ultimate strength of corroded stiffened plates subjected to maintenance", *Sustainable Development and Innovations in Marine Technologies*, Georgiev, P. & Guedes Soares C. (Eds.), Taylor and Francis Group, London, pp. 429-436.

3.2.215 Hashemzadeh, M., Garbatov, Y. and Guedes Soares, C. (2020), "Numerical Stress-Strain Analysis of Butt-Welded Plates during the Welding Process", *Developments in the Collision and Grounding of Ships and Offshore Structures*, C. Guedes Soares (Ed.), Taylor and Francis Group, London, pp. 157-162.

3.2.216 Garbatov, Y., Ås, S.K., Branner, K., Choi, B.K., Den Besten, J.H., Dong, P., Lillemäe, I., Lindstrom, P., Lourenco de Souza, M., Parmentier, G., Quéméner, Y., Rizzo, C.M., Rörup, J., Vhanmane, S., Villavicencio, R., Wang, F. and Yue, J. (2020), "Fatigue and Fracture - Reply to Official and Floor Discussers", *20th International Ship and Offshore Structures Congress (ISSC 2018)*, Kaminski, M. & Rigo P., (Eds.), IOS Press Ebooks, pp.87-110.

3.2.217 Woloszyk, K. and Garbatov, Y. (2021), "Design of experiments approach for ultimate strength assessment of corroded stiffened plates", *Modern Trends in Research on Steel, Aluminium and Composite Structures*, Gizejowski, M. Kozlowski A. Chybinski M. Rzeszut K. Studzinski R. & Szumigala M., (Eds.), Taylor and Francis, London, UK, pp. 527-533.

3.2.218 Jafaryeganeh, H., Guedes Soares, C. and Siow, C. L. (2021), "A damage prediction model of oil tankers for design applications based on the regulations", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 305-314.

3.2.219 Chen, B.Q., Guedes Soares, C. and Videiro, P.M. (2021), "Review of digital twin of ships and offshore structures", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 445-452.

3.2.220 He, X. and Guedes Soares, C. (2021), "Uncertainty analysis on the pseudo-shakedown phenomenon of rectangular plates subjected to dynamic pressure pulse", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 461-468.

3.2.221 Vitorino, A. and Garbatov, Y. (2021), "Strength identification of ageing structures using shock pulse approach", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 507-516.

3.2.222 Calvário, M. and Guedes Soares, C. (2021), "Study of a composite pressure hull for point absorber wave energy converter", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 639-646.

3.2.223 Woloszyk, K. and Garbatov, Y. (2021), "Accelerated large scale test set-up design in natural corrosion marine environment", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 517-524.

3.2.224 Woloszyk, K. and Garbatov, Y. (2021), "Ultimate strength of stiffened plates subjected to compressive load and spatially distributed mechanical properties", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 609-618.

3.2.225 Shi, X.H., Shen, H., Zhang, J. and Guedes Soares, C. (2021), "Uncertainty of ultimate strength of ship hull with pits", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 583-590.

3.2.226 Sun, K., Zhu, L., Xu, L. and Guedes Soares, C. (2021), "Study on residual strength of stiffened panels with dent damages", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 591-598.

3.2.227 Tekgoz, M. and Garbatov, Y. (2021), "Analysis of post-collapse behaviour of rectangular plate employing roof mode plastic solutions", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 599-608.

3.2.228 Li, RX. and Guedes Soares, C. (2021), "Numerical study on the effects of initial deflection on ultimate strength of pipeline under external pressure", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 705-712.

3.2.229 Pacheco, M.R., Guedes Soares, C. and Riagusoff, I.I.T. (2021), "Strength analysis of corroded pipelines in subsea operation condition and heated product transport", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 721-726.

3.2.230 Hashemzadeh, M., Garbatov, Y. and Guedes Soares, C. (2021), "Finite element welding simulation of construction assembly", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 759-766.

3.2.231 Gordo, J.M. and Teixeira, G. (2021), "A simplified method to simulate residual stresses in plates", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 785-792.

3.2.232 Roque, P.Z. and Gordo, J.M. (2021), "A measurement of shipbuilding productivity", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 801-810.

3.2.233 Legaz, M.J. and Guedes Soares, C. (2021), "Remarks about trends in Fast Ferry design", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 323-328.

3.2.234 Guedes Soares, C. (2021), "Forty years of teaching and research in Naval Architecture and Ocean Engineering in Portugal", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 3-16.

3.2.235 Palomba, G., Crupi, V. and Garbatov, Y. (2022), "Environmental impact of lightweight structures in marine applications", *Developments in the analysis and design of marine structures*, Amdahl, J. & Guedes Soares C. (Eds.), Taylor & Francis, London, UK, pp. 440-448.

3.2.236 Garbatov, Y., Ås, S.K., Den Besten, J.H., Haselbach, P., Kahl, A., Karr, D., Kim, M.H., Liu, J., Lourenco de Souza, M., Mao, W., Mikkola, E., Osawa, N., Prasetyo, F.A., Sicchiero, M., Vhanmane, S., Vicente del Amo, M. and Yue, J. (2022), "Committee III.2 Fatigue and fracture", Wang, X. & Pegg N. (Eds.), *21st International Ship and Offshore Structures Congress (ISSC 2022)*, IOS Press Ebooks, pp. 501-641.

3.2.237 Josefson, L., Anyfantis, K., Carvalho Pinheiro, B., Chen, BQ., Dong, PS., Ferrari, N., Gotoh, K., Huang, J., Krause, M., Liu, K., Paboeuf, S., van Duin, S., Wang, F. and Zamarin, A. (2022), "Committee V.3: Materials and Fabrication Technology", Wang, X. & Pegg N. (Eds.), *21st International Ship and Offshore Structures Congress (ISSC 2022)*, IOS Press Ebooks, pp. 163-239.

3.2.238 Calvário, M. and Guedes Soares, C. (2022), "Uncertainty propagation and sensitivity analysis of a composite material wave energy converter structure", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 69-78.

3.2.239 Garbatov, Y., Scattareggia Marchese, S., Palomba, G. and Crupi, V. (2022), "Alternative hybrid lightweight ship hull structural design", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 99-107.

3.2.240 Hashemzadeh, M.; Garbatov, Y., and Guedes Soares, C. (2022), "Ultimate strength enhancement of butt-welded structural components by preheating treatment and induced constraints", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 117-123.

3.2.241 Machado, R., Gordo, J.M. and Ventura, M. (2022), "Geometrical characterization of ship structural design", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 167-178.

3.2.242 Ponte, R., Sutherland, L.S. and Garbatov, Y. (2022), "Structural analysis of a 'Foiling Moth' sailing dinghy hydrofoil", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 185-193.

3.2.243 Sutherland, L.S., Cardoso de Brito, M., Chaves Pereira, J., Arruda, M.R. and Benson, S. (2022), "Fluid-structure interaction analyses of a composite windsurf fin", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 223-232.

3.2.244 Tekgoz, M. and Garbatov, Y. (2022), "Quasi-static wave induced bending moment prediction of an offshore support vessel in head sea using the 2-D strip and 3-D panel methods", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 233-241.

3.2.245 Woloszyk, K. and Garbatov, Y. (2022), "Numerical modelling and analysis of steel specimens subjected to marine immersed corrosion and tensile load", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 243-248.

3.2.246 Zavvar, E. and Guedes Soares, C. (2022), "Effects of fibre reinforced polymer on stress concentration factors in uniplanar DKT-joints subjected to the compression loading", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 249-260.

3.2.247 Sanz, D. S.; Garcia, S.; Trueba, A.; Trueba-Castaneda, L.; Islam, H.; Guedes Soares, C., and Boullosa-Falces, D. (2022), "Numeric analysis of the biofouling impact on the ship resistance with ceramic coating on the hull", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 443-450.

3.2.248 Marreiros, G. and Ventura, M. (2022), "Hull Compartment Layout of Containerships", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 619-628.

3.2.249 Zavvar, E., Chen, B.Q., Uzunoglu, E. and Guedes Soares, C. (2022), "Stress distribution on the CENTEC-TLP in still water and rated wind speed", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, 519-528.

3.3 Conference Proceedings

3.3.1 Guedes Soares, C. (1979), "Rigid-Plastic Methods of Analysis of Structures subjected to Intense Dynamic Loading", *Proceedings of the 2nd National Congress of Theoretical and Applied Mechanics*, (in Portuguese), Lisbon, Portugal.

3.3.2 Guedes Soares, C. and Soares, M.R.N. (1987), "Optimisation of the Primary Ship Structure", *Proceedings of the 4th National Congress of Theoretical and Applied Mechanics*, (in Portuguese), Coimbra, Portugal.

3.3.3 Guedes Soares, C. and Paiva, J.A. (1987), "Stress Distribution in a Paralelipipedic Reservoir containing Liquid", *Proceedings of the 4th National Congress of Theoretical and Applied Mechanics* (in Portuguese), Coimbra, Portugal.

3.3.4 Gordo, J.M. and Guedes Soares, C. (1995), "Collapse of Ship Hulls under Combined Vertical and Horizontal Bending Moments", *Proceedings of the Sixth International Symposium on Practical Design of Ships & Mobile Units*, (*PRADS'95),* Korea, Vol. II, pp. 808-819.

3.3.5 Teixeira, A., Kmiecik, M. and Guedes Soares, C. (1995), "Analysis of the Plastic Collapse of Beams by Finite Elements", *Proceedings IV National Meeting of Computational Mechanics*, (in Portuguese), Lisbon, Portugal, Vol. I, pp. 83-94.

3.3.6 Carvalho, A. and Guedes Soares, C. (1995), "Dynamic Response of Rectangular Plates of Composite Materials Subjected to Impact Loads", *Proceedings of the IV National Meeting of Computational Mechanics*, Lisbon, Portugal, 10-12 April, Vol. I, pp. 385-398.

3.3.7 Jensen, J.J., Caridis, P., R.-Cho, S., Damonte, R., Dow, R.S., Gordo, J.M. Kaminski, M.L., Kozliakov, V.V., Pegg, N.G., Röhr, U., Rutherford, S.E., Yao, T. and Zhang, S. (1998), "Ultimate Strength (Committee III.1)", *Proceedings of the 13th International Ship and Offshore Structures Congress (ISSC),* Trondheim, Norway, Vol. 1, pp. 233-283.

3.3.8 Gordo, J.M. and Guedes Soares, C. (1998), "Considerations about the Strength of Thin-Walled Structures", *Proceedings of the Seminar on Ship Design, Shipbuilding and Ship Maintenance* (in Portuguese), David e Silva, F. and Rodrigues Mateus, A. (Eds.), Lisbon, pp. 7.1-7.17.

3.3.9 Guedes Soares, C. (2000), "Impact Strength of Glass-Fibre Composites", *Proceedings of the International Conference on Lightweight Construction Latest Developments,* 24-25 February, London, UK, paper 11, pp 1-9.

3.3.10 Gordo, J.M. and Guedes Soares, C. (2000), "Residual Strength of Damaged Ship Hulls", *Proceedings of the IX International Maritime Association of Mediterranean Congress (IMAM´00),* Pasquale Cassella, Antonio Scamardella and Giuseppe Festinese (Eds.), 2-6 April, Ischia, Italy, pp. 79-86.

3.3.11 Kaminski, M.L., Amdahl, J., Fasano, E., Frieze, P.A., Gordo, J.M., Grundy, P., Hess, P.E, Kawamoto, Y., Kujala, P., Paik, J.K., Röhr, U. and Simonsen, B.C. (2000), "Ultimate Strength", *Proceedings of the 14th International Ship and Offshore Structures Congress (ISSC'00)*, 2-6 October, Nagasaki, Japan, Vol. 1, pp. 253-321.

3.3.12 Garbatov, Y., Petkov, H, and Guedes Soares, C. (2001), "Fatigue Assessment of the Windows Corner Structure of Passenger Ship*", Proceedings of the III International Conference on Marine Industry (MARIND'01)*, 4-8 June, Varna, Bulgaria, Vol. III, pp. 95-107.

3.3.13 Sutherland, L. and Guedes Soares, C. (2001), "Impact Behaviour of Low Fibre-Fraction Glass / Polyester Laminates", *Proceedings of the 4th APAET Meeting - Experimental Stress Analysis and Experimental Mechanic*, 17-19 October, Bragança, Portugal, pp. 39-40.

3.3.14 Gordo, J.M. and Guedes Soares, C. (2001), "Bending Test on a Thin Wall Box Girder", *Proceedings of the 4th APAET Meeting - Experimental Stress Analysis and Experimental Mechanic*, (in Portuguese), 17-19 October, Bragança, Portugal.

3.3.15 Gordo, J.M. and Guedes Soares, C. (2001), "Stress Distribution in Thin-Walled Reinforced Box-Girder Beams subjected to Bending", *Proceedings of the III Meeting of Metal and Mixed Structures*, 6-7 December, Aveiro, Portugal, pp. 679-692.

3.3.16 Sousa, A., Garbatov, Y. and Guedes Soares, C. (2001), "Finite Element Analysis of a Bulk Carrier under a Fadigue Load", *Proceedings of the III Meeting of Metal and Mixed Structures*, (in Portuguese), 6-7 December, Aveiro, Portugal, pp. 543-552.

3.3.17 Sun, H.H. and Guedes Soares, C. (2001), "Reliability-Based Structural Design of Ship-Type FPSO Units", *Proceedings of the 20th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'01),* 3-8 June, Rio de Janeiro, Brazil, ASME, New York, Paper OMAE2001-S&R-2177.

3.3.18 Garbatov, Y., Rudan, S. and Guedes Soares, C. (2002), "Assessment of Geometry Correction Functions of Tanker Knuckle Details based on Fatigue Tests and Finite Element Analysis", *Proceedings of the 21st International Conference on Offshore Mechanics and Arctic Engineering* (OMAE'02), 23-28 June, Oslo, Norway, ASME, New York, Paper MAT-28422.

3.3.19 Sadovsky, Z., Teixeira, A.P. and Guedes Soares, C. (2002), "Effects of Localised Imperfections Normalised by Energy Measure on the Compression Strength of Rectangular Plates", *Proceedings of the 3rd European Conference on Steel Structures (EUROSTEEL´02)*, Lamas, A. and Silva, L. S. (Eds.), 19-20 September, Coimbra-Portugal, Vol. I, pp. 601-610.

3.3.20 Rudan, S., Garbatov, Y. and Guedes Soares, C. (2002), "Hot-Spot Stress Assessment Based on Different Sea State Conditions", *Proceedings of the 15th International Symposium on Theory and Practice of Shipbuilding (SORTA´02)*, 14-16 November, Trogir, Croatia, pp. 427-432.

3.3.21 Garbatov, Y., Rudan, S. and Guedes Soares, C. (2002), "Prediction of Fatigue Damage in Brackets of Large Scale Test Specimens of Ship Structures", *Proceedings of the 8th Portuguese Conference on Fracture*, 20-22 February, Vila Real, Portugal, pp. 61-69.

3.3.22 Chen, N.-Z., Garbatov, Y. and Guedes Soares, C. (2002), "Finite Element Analysis of a Fishing Vessel Built of Composite Materials", *Proceedings of the 6th International Conference on Marine Science and Technology (Black Sea´02)*, 10-12 October, 2002.

3.3.23 Dimas, D.M. and Guedes Soares, C. (2003), "Experimental Study of the Plastic Behavior of Beams subjected to Impact", *Proceedings of the VII Congress of Applied and Computational Mechanics*, (in Portuguese), 14-16 April, Évora, Portugal, Vol. III (Secção IV), pp. 1399-1409.

3.3.24 Rodrigues, B., Sutherland, L.S. and Guedes Soares, C. (2003), "Design and Commissioning of A Servo-Hydraulic Test Rig", *Proceedings of the VII Congress of Applied and Computational Mechanic*, (in Portuguese), 14-16 April, Évora, Portugal, Vol. III (Part IV), pp. 1631-1640.

3.3.25 Dimas, D.M. and Guedes Soares, C. (2003), "Modes of Collapse of a clamped beam under Transverse Impact", *Proceedings of the IV Meeting of Metal and Mixed Structures*, (in Portuguese), 4-5 December, Lisbon, Portugal, pp. 379-388.

3.3.26 Gordo, J.M. and Guedes Soares, C. (2003), "Influence of geometry and material on the Ultimate Strength of Stiffened Panel", *Proceedings of the IV Meeting of Metal and Mixed Structures* (in Portuguese), 4-5 December, Lisbon, Portugal, pp. 429-439.

3.3.27 Garbatov, Y., Leite, R. and Guedes Soares, C. (2003), "Assessment of fatigue damage of a welded trapezoidal joint subject to a combined stochastic load", *Proceedings of the IV Meeting of Metal and Mixed Structures*, (in Portuguese), 4-5 December, Lisbon, Portugal, pp. 477-486.

3.3.27a Barradas Cardoso, J. (2003), "Design Sensitivities of Elastic-Plastic Structures with Cyclic Loading", *Proceedings of the VII Congress of Applied and Computational Mechanics*, 14-16 April, Évora, Portugal, Vol. 2, pp. 895-905.

3.3.27b Barradas Cardoso, J. (2003), "Variational Formulation of Design Sensitivities for the Stability of Nonlinear Structures", *Proceedings of the VII Congress of Applied and Computational Mechanics*, 14-16 April, Évora, Portugal, Vol. 1, pp. 459-466.

3.3.27c Barradas Cardoso, J., Sousa, L.G. and Valido, A.J. (2003), "Optimal Design of Composite Thin-Walled Beam Structures with Geometrically Nonlinear Behaviour", *Proceedings of the 9th International Conference on Enhancement and Promotion of Computational Methods in Engineering and Science (EPMESC)*, 25-28 November, Macau.

3.3.27d Pereira, J.P. and Barradas Cardoso, J. (2003), "Application of Genetic Operators to the Multiobjective Structural Optimal Design", *Proceedings of the VII Congress of Applied and Computational Mechanics*, 14-16 April, Évora, Portugal, Vol. 1, pp. 211-220.

3.3.27e Sousa, L.G., Valido, A.J., Barradas Cardoso, J. (2003), "A New Method of Design Optimization of Nonlinear Structures with Stability Constraints", *Proceedings of the VII Congress of Applied and Computational Mechanics*, 14-16 April, Évora, Portugal, Vol. 2, pp. 1003-1011.

3.3.27f Valido, A.J., Sousa, L.G. and Barradas Cardoso, J. (2003), "Design Sensitivity Analysis of Laminated Composite Beam Structures with Geometrically Nonlinear Behaviour", *Proceedings of the VII Congress of Applied and Computational Mechanics*, 14-16 April, Évora, Portugal, Vol. 1, pp. 105-115.

3.3.28 Tomasevic, S., Garbatov, Y. and Guedes Soares, C. (2004), "Fatigue Damage Assessment of a Converted FPSO Hull", *Proceedings of the 9th Portuguese Conference on Fracture 2004*, Portuguese Materials Society, 18-20 February, Setúbal, Portugal.

3.3.29 Sadovsky, Z., Guedes Soares, C. and Teixeira, A.P. (2004), "On Lower Bound Solutions of Compression Strength of Plates with Random Imperfections", *Proceedings of the 4th International Conference on Thin-Walled Structures (ICTWS´04)*, Loughlan, J. (Ed.), IoP Publishing, 22-24 June, Loughborough, U.K., pp. 565-572.

3.3.30 Dimas, D.M. and Guedes Soares, C. (2004), "Numerical simulation of the transverse impact on different points of the span on a clamped beam", *Proceedings of the Congress on the Computational Methods in Engineering (CMCE´04)*, (in Portuguese), 31 May-2 June, Lisbon, Portugal.

3.3.31 Dimas, D.M. and Guedes Soares, C. (2004), "Experimental Study of the transverse impact on different points of the span of clamped beams with different lengths", *Proceedings of the Congress on the Computational Methods in Engineering (CMCE´04)*, (in Portuguese), 31 May - 2 June, Lisbon, Portugal.

3.3.32 Ferreira, B., Gordo, J.M. and Guedes Soares, C. (2004), "Collapse strength of non-reinforced tubular components", *Proceedings of the Congress on the Computational Methods in Engineering (CMCE´04)*, (in Portuguese), 31 May-2 June, Lisbon, Portugal.

3.3.33 Ferreira, B., Pasqualino, I.P., Estefan, S.F. and Guedes Soares, C. (2004), "Validation of a Numerical Model of the Collapse strength of Submarine Pipelines Subjected to External Pressures", *Proceedings of the Congress on the Computational Methods in Engineering (CMCE´04)*, (in Portuguese), 31 May-2 June, Lisbon, Portugal.

3.3.34 Teixeira, A.P., Andreev, A. and Guedes Soares, C. (2004), "Stochastic analysis of the collapse strength of corroded plates", *Proceedings of the Congress on the Computational Methods in Engineering (CMCE´04)*, (in Portuguese), 31 May-2 June, Lisbon, Portugal.

3.3.35 Dimas, D.M. and Guedes Soares, C. (2004), "Experimental and numerical study of clamped beams subjected to impact in the mid-span", *Proceedings of the 5th National Meeting of Experimental Stress Analysis and Experimental Mechanics (APAET´04)*, (in Portuguese), 21-23 January, Coimbra, Portugal.

3.3.36 Sutherland, L.S. and Guedes Soares, C. (2004), "Transverse Impact of Circular Marine Composite Plates", *Proceedings of the 5th National Meeting of Experimental Stress Analysis and Experimental Mechanics (APAET´04)*, (in Portuguese), 21-23 January, Coimbra, Portugal.

3.3.37 Sutherland, L.S., Rodrigues, B. and Guedes Soares, C. (2004), "Design and commissioning of a frame with a hydraulic activator for structural testing", *Proceedings of the Proceedings of the 5th National Meeting of Experimental Stress Analysis and Experimental Mechanics (APAET´04)*, (in Portuguese), 21-23 January, Coimbra, Portugal.

3.3.38 Sutherland, L.S., Santos, F.M. and Guedes Soares, C. (2004), "Composite Indentation for Ship Application", *Proceedings of the Proceedings of the 5th National Meeting of Experimental Stress Analysis and Experimental Mechanics (APAET´04)*, (in Portuguese), 21-23 January, Coimbra, Portugal.

3.3.39 Dimas, D.M. and Guedes Soares, C. (2004), "Energy Absorption and Rupture Analysis in Small-Scale Beams under Transverse Impact", *Proceedings of the 3rd International Conference on Collision and Grounding of Ships (ICCGS´04)*, 25-27 October, Izu, Japan, Vol. I, pp. 312-321.

3.3.39a Barradas Cardoso, J., Castro, J. and Valido, A.J. (2004), "Design Sensitivities of Thin-Walled Composite Beam Profiles", *Proceedings of the Congress on the Computational Methods in Engineering (CMCE´04)*, (in Portuguese), 31 May-2 June, Lisbon, Portugal.

3.3.40 Garbatov, Y, Sutherland, L.S., Guedes Soares, C. and Cabral, G.P. (2005), "Structural Assessment of a Fishing Vessel Built of Glass Fiber Reinforced Polyester Resin", *Proceedings of the RINA Conference on Fishing Vessels, Fishing Technology and Fisheries*, 13-14 April, Newcastle, U.K., pp. 89-98.

3.3.41 Teixeira, A.P. and Guedes Soares, C. (2005), "Probabilistic modelling of the collapse behaviour of plates with random corrosion fields", *Proceedings of the* 2005 *Conference on Numerical Methods in Engineering*, 4-7 July, Granada, Spain, SEMNI.

3.3.42 Gordo, J.M. and Guedes Soares, C. (2005), "Compressive Tests on Stocky Panels with Different Configurations", *Proceedings of the ISOPE 2005*, Seoul, South Korea, Paper No. 2005-TY-06, pp. 759-765.

3.3.43 Garbatov, Y. and Guedes Soares, C. (2005), "Hot-Spot Stress Assessment of Longitudinaly Stiffened Dek Structure", *Proceedings of the Second International Congress on Mechanical and Electrical Engineering and Marine Industry (MEEMI´05)*, 7-9 October, Varna, Bulgaria, Vol. I, pp. 26-33.

3.3.43a Barradas Cardoso, J. (2005), "Structural Design Sensitivity Analysis of Elastic-Plastic History-Dependent Response", *Proceedings of the Sixth World Congress of Structural and Multidisciplinary Optimization (WCSMO)*, Rio de Janeiro, Brasil.

3.3.43b Valido, A.J. and Barradas Cardoso, J. (2005), "Design Sensitivity Analysis of Thin-walled Composite Beam Cross-Sections", *Proceedings of the Sixth World Congress of Structural and Multidisciplinary Optimization (WCSMO)*, Rio de Janeiro, Brasil.

3.3.44 Luís, R.M., Witkowska, M. and Guedes Soares, C. (2006), "Ultimate Strength of Transverse Plate Assemblies under Uniaxial Loads", *Proceedings of the 25th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´06)*, 4-9 June, Hamburg, Germany, ASME, New York, Paper OMAE2006-92664.

3.3.45 Luís, R.M. and Guedes Soares, C. (2006), "Ultimate Collapse Strength of Plate Assemblies with Localized Imperfection submitted to Uniaxial Compressive Loads*", Proceedings of the III European Conference on Computational Mechanics Solids, Structures and Coupled Problems in Engineering (ECCM´06)*, C.A. Mota Soares et.al. (Eds.), 5-9 June, Lisbon-Portugal.

3.3.46 Chen, N.-Z. and Guedes Soares, C. (2006), "Buckling Analysis of Stiffened Composite Panels", *Proceedings of theIII European Conference on Computational Mechanics Solids, Structures and Coupled Problems in Engineering (ECCM´06)*, C.A. Mota Soares et.al. (Eds.), 5-8 June, Lisbon, Portugal.

3.3.46a Barradas Cardoso, J., Benedito, N.M.B. and Valido, A.J. (2006), "Finite Element Analysis of Geometrically Nonlinear Thin-Walled Composite Laminated Beams", *Proceedings of the III European Conference on Computational Mechanics Solids, Structures and Coupled Problems in Engineering (ECCM´06)*, C.A. Mota Soares et. al. (Eds.), 5-9 June, Lisbon, Portugal.

3.3.46b Barradas Cardoso, J., Moita, P.P. and Valido, A.J. (2006), "Mechanical Systems Design and Control Optimization with Varying Time Domain", *Proceedings of the III European Conference on Computational Mechanics Solids, Structures and Coupled Problems in Engineering (ECCM´06)*, C.A. Mota Soares et. al. (Eds.), 5-9 June, Lisbon, Portugal.

3.3.46c Barradas Cardoso, J. and Valido, A.J. (2006), "Cross Section of Composite Thin-Walled Beams Design Sensitivity Analysis", *Proceedings of the 5th International Conference on Mechanics and Materials in Design*, 24-26 July, Porto, Lisboa.

3.3.46d Barradas Cardoso, J. and Valido, A.J. (2006), "Design Sensitivity Analysis of Composite Thin-Walled Profiles including Torsion and Shear Warping", *Proceedings of the III European Conference on Computational Mechanics Solids, Structures and Coupled Problems in Engineering (ECCM´06)*, C.A. Mota Soares et. al. (Eds.), 5-9 June, Lisbon, Portugal.

3.3.46e Barreiros, A. and Barradas Cardoso, J. (2006), "The Solution of a Stochastic Programming Problem with Recourse Using a New Method", *Proceedings of the 48th Congress of the Operational Research Society*, 11-13 September, Bath, U.K.

3.3.46f Barreiros, A. and Barradas Cardoso, J. (2006), "Solution of Two-Stage Stochastic Linear Programming Problems", *Proceedings of the 12st Congresso de Investigação Operacional (IO2006)*, 8-11 October, Lisbon, Portugal.

3.3.46g Barreiros, A., Moita, P.P. and Barradas Cardoso, J. (2006), "Design Optimization of Mechanical Systems with Uncertain Input", *Proceedings of the 5th International Conference on Mechanics and Materials in Design*, 24-26 July, Porto, Portugal.

3.3.46h Benedito, N.M.B., Valido, A.J. and Barradas Cardoso, J. (2006), "Nonlinear Finite Element Analysis of Thin-Walled Laminated Beams Accounting Warping", *Proceedings of the 5th International Conference on Mechanics and Materials in Design*, 24-26 July, Porto, Portugal.

3.3.46i Moita, P.P., Valido, A.J. and Barradas Cardoso, J. (2006), "Minimum Time Design and Control of Mechanical Systems", *Proceedings of the 5th International Conference on Mechanics and Materials in Design*, 24-26 July, Porto, Portugal.

3.3.47 Luís, R.M. and Guedes Soares, C. (2006), "Assessment of a simplified method to calculate the longitudinal strength of damaged ships", *Proceedings of the X Congress on Naval Architecture and Marine Engineering (JEN´06)* (in Portuguese), 21-22 November, Lisboa, Portugal.

3.3.48 Luís, R.M., Witkowska, M. and Guedes Soares, C. (2006), "Prediction of compressive strength of transverse panels with localized imperfections", *Proceedings of the* X *Congress on Naval Architecture and Marine Engineering (JEN´06)* (in Portuguese), 21-22 November, Lisboa, Portugal.

3.3.49 Luís, R.M., Witkowska, M. and Guedes Soares, C. (2007), "Collapse Behaviour of Damaged Panels with Dimple Imperfection", *Proceedings of the 26th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´07)*, 10-15 June, San Diego, California, USA, ASME, New York, Paper OMAE2007-29777.

3.3.50 Luis, R.M., Hussein, A.W. and Guedes Soares, C. (2007), "On the Effect of Damage on the Longitudinal Strength of Ships", *Proceeding of the 10th International Symposium on Practical Design*

of Ships and Other Floating Structures (PRADS´07), Houston, Texas, USA, American Bureau of Shipping.

3.3.51 Sutherland, L.S. and Guedes Soares, C. (2007), "Impact on Marine Laminates" *Proceeding of the International Conference "The Modern Yacht (RINA)*, The Royal Institution of Naval Architects, 11-12 October, Southampton, UK.

3.3.51a Barradas Cardoso, J., Moita, P.P. and Valido, A.J. (2007), "Design and Control of Nonlinear Mechanical Systems for Minimum Time", *Proceedings of the International Conference on Engineering Dynamics (ICED´07)*, 17-19 April, Carvoeiro, Portugal.

3.3.51b Barradas Cardoso, J., Moita, P.P. and Valido, A.J. (2007), "Optimal Control of Injury Prevention Systems to Impact", *Proceedings of the Optimization 2007 Conference*, Porto, Portugal.

3.3.51c Moita, P.P., Barradas Cardoso, J. and Valido, A.J. (2007), "A Space-Time Finite Element Model for Design and Control Optimization of Nonlinear Dynamic Response", *Proceedings of the International Conference on Engineering Dynamics (ICED´07)*, 17-19 April, Carvoeiro, Portugal.

3.3.52 Witkowska, M. and Guedes Soares, C. (2008), "Collapse Strength of Stiffened Panels with Local Dent Damage", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-57950.

3.3.53 Gordo, J.M. and Guedes Soares, C. (2008), "Compressive Tests on Long Continuous Stiffened Panels", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-57873.

3.3.54 Jiang, X. and Guedes Soares, C. (2008), "Nonlinear FEM Analysis of Pitted Mild Steel Square Plates Subjected to In-Plane Compression", *Proceedings of the TEAM*, Ergin, A. (Editor) 2008; Istanbul, Turkey.

3.3.55 Hussein, A.W. and Guedes Soares, C., (2008), "Design Equation for the Ultimate Capacity of Intact and Grounded Double Hull Tankers Designed According to the Common Structural Rules", *Proceedings of the TEAM 2008*, Ergin, A. (Editor), Istanbul, Turkey, Vol. 1, pp. 497-505.

3.3.56 Gordo, J.M. (2008) "Strength of imperfection plate under axial compression", *Proceedings of the SOBENA*, Rio de Janeiro, Brazil.

3.3.57 Hussein, A.W. and Guedes Soares, C. (2009), "Ultimate Strength of Intact and Damaged Bulk Carriers", *Proceedings of the 13th Congress of International Maritime Association of Mediterranean (IMAM´09)*, 12-15 October, Istanbul, Turkey.

3.3.58 Villavicencio, R. and Guedes Soares, C. (2009), "Response of clamped beams to impact loading along their length", *Proceedings of the 13th Congress of International Maritime Association of the Mediterranean (IMAM´09)*, 12-15 October, Istanbul, Turkey, pp. 437-445.

3.3.59 Oktem, A.S., Chaudhuri, R.A. and Guedes Soares, C. (2009), "A Higher Order Shear Deformation Theory based Fourier Solutions for Fully Clamped General Cross-ply Plates", *Proceeding of the 15th International Conference on Composite Structures (ICCS15)*, 14-17 June, Porto, Portugal.

3.3.60 Paik, J.K., Branner, K., Choo, Y.S., Czujko, J., Fujikubo, M., Gordo, J.M., Parmentier, G., Laccarino, R., O´Neil, S., Pasqualino, I., Wang, D., Wang, X. and Zhang, S. (2009), "Committee III.1 - Ultimate Strength", *Proceedings of the 17th International Ship and Offshore Structures Congress (<)*, 16-21 August, Jang, C.D. and Hong, S. (Eds.), Seoul, South Korea, Vol. 1, pp. 375-474.

3.3.61 Karr, D., Rennan, D., Bronsart, R., Hambers, J., Chen, C.P., Chirica, I., McGregor, J., Oneto, F., Rigo, P., Takaoka, Y., Ventura, M. and Yum, J.S. (2009), "Committee IV.2 - Design Methods", *Proceedings of the 17th International Ship and Offshore Structures Congress (ISSC)*, 16-21 August, Jang, C.D. and Hong, S.Y. (Eds.), Seoul, South Korea, Vol. 1, pp. 689-756.

3.3.62 Shenoi, A., Beck, R., Boote, D., Davies, P., Hage, A., Hudson, D., Kageyama, K., Keuning, J.A., Miller, P. and Sutherland, L. (2009), "Committee V.8 - Sailing Yacht Design", *Proceedings of the 17th International Ship and Offshore Structures Congress (ISSC)*, 16-21 August, Jang, C.D. and Hong, S.Y. (Eds.), Seoul, South Korea, Vol. 2, pp. 433-493.

3.3.63 Guedes Soares, C., Basu, R., Cerup Sinonsen, B., Egorov, G.V., Hung, C.F., Lindstrom, P., Samuelides, E., Vredeveldt, A. and Yoshikawa, T. (2009), "V.1 - Damage Assessment After Accidental Events", *Proceedings of the 17th International Ship and Offshore Structures Congress (ISSC)*, 16-21 August, Jang, C.D. and Hong, S.Y. (Eds.), Seoul, South Korea, Vol. 2, pp. 1-72.

3.3.64 Valido, A.J., Cardoso, J.B. and Castro, J.A. (2009), "Optimal design of composite laminated thin-walled cross-sections", *Proceedings of the 8th World Congress on Structural and Multidisciplinary Optimization (WCSMO-8)*, 1-5 June, LNEC, Lisboa, Portugal.

3.3.65 Moita, P.P., Cardoso, J.B. and Valido, A.J. (2009), "Optimal Control of Systems to Impact with Preview Control", *Proceedings of the 8th World Congress on Structural and Multidisciplinary Optimization (WCSMO-8)*, 1-5 June, LNEC, Lisboa, Portugal.

3.3.66 Cardoso, J.B., Moita, P.P. and Valido, A.J. (2009), "Multicriteria Oprimization of Injury Prevention Systems to Impact", *Proceedings of International Conference in Engineering Dynamics*, 22–24 June, Ericeira, Portugal.

3.3.67 Jiang, X. and Guedes Soares, C. (2009), "Ultimate compressive capacity of mild steel playes with single and double side corrosion pits", *Proceedings of the TEAM 2009*, 30 November-3 December, Kaohsiung, Taiwan.

3.3.68 Jiang, X. and Guedes Soares, C. (2010), "Ultimate Compressive Capacity of Rectangular Plates with Partial Depth Pits", *Proceedings of the 29th International Conference on Offshore Mechanics and Arctic Engineering (OMAE 2010)*, 6-11. June, Shanghai, China, ASME, New York.

3.3.69 Villavicencio, R., Sutherland, L.S. and Guedes Soares, C. (2010), "Numerical simulation of transversely impacted, clamped circular aluminium plates", *Proceedings of the 5th International Conference on Collision and Grounding of Ships (ICCGS 2010)*, 14-16 June, Espoo, Finland.

3.3.70 Saad-Eldeen, S., Nguyen, T., Garbatov, Y. and Guedes Soares, C. (2010), "Fatigue Stress Assessment Accounting for Contact Effect", *Proceedings of the 10th International Conference on Marine Science and Technology (Black Sea 2010)*, Union of Scientists of Varna, pp. 23-33.

3.3.71 Chen, B.Q., Garbatov, Y. and Guedes Soares, C. (2010), "Displacement Measurement of the Box Girder Based on Photogrammetry", *Proceedings of the 11th International Symposium on Practical Design of Ships and Other Floating Structures (PRADS 2010)*, Rio de Janeiro, Brazil, pp. 1053-1061.

3.3.72 Jiang, X. and Guedes Soares, C., (2010), "Ultimate capacity of mild steel plates with partial depth pits under biaxial compressive loads", *Proceedings of the 11th International Symposium on Practical Design of Ships and Other Floating Structures (PRADS 2010)*, Rio de Janeiro, Brazil, pp. 1044-1052.

3.3.73 Saad-Eldeen, S., Garbatov, Y. and Guedes Soares, C., (2010), "Experimental Assessment of the Ultimate Strength of a Box Girder Subjected to four-point Bending Moment", *Proceedings of the 11th International Symposium on Practical Design of Ships and Other Floating Structures (PRADS 2010)*, Rio de Janeiro, Brazi, pp. 1134-1143.

3.3.74 Wang, G., Chen, N-Z., Guo, J. and Guedes Soares, C., (2010), "Application of Structural Reliability Approach to Assist Hull Integrity Management", *Proceedings of the 11th International Symposium on Practical Design of Ships and Other Floating Structures (PRADS 2010)*, Rio de Janeiro, Brazil, pp. 1399-1410.

3.3.75 Pan, J., Wu, W. and Xu, M.C., (2010), "The Design and Analysis of Pile Protection Devices for the Qiantang River Bridge", *Proceedings of the 29th International Conference on Offshore Mechanics and Arctic Engineering (OMAE 2010)*, 6-11. June, Shanghai, China, ASME, New York.

3.3.75a Machado, P., Cláudio, R.A., Valido, A.J., Duarte, R. and Martins, O. (2010), "Pre-Validation of Welded Joints in a Bike Frame", *Proceedings of Iberian Conference on Fracture and Structural Integrity 2010*, 17-19 March, Porto, Portugal, pp. 133-138.

3.3.75b Barradas Cardoso, J., Valido, A.J. and Barreiros, A.A. (2010), "Method to Improve the Calculation of the Bicriteria Pareto Frontier", *Proceedings of 2nd International Conference on Engineering Optimization*, 6-9 September, Lisbon, Portugal.

3.3.76 Xu, M.C. and Guedes Soares, C., (2011), "Comparison of Numerical Result with Experiments on the Ultimate Strength of Long Stiffened Panels", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper: OMAE2011-50294.

3.3.77 Xu, M.C. and Guedes Soares, C., (2011), "Experimental Study on the Collapse Strength of Narrow Stiffened Panels", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper: OMAE2011-50293.

3.3.78 Jiang, X. and Guedes Soares, C., (2011), "Ultimate capacity behaviour of pitted mild steel plates under biaxial compression", *Proceedings of the 30th International Conference on Ocean, Offshore*

and Arctic Engineering (OMAE 2011), 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper: OMAE2011-49980.

3.3.79 Chen, B.Q., Garbatov, Y. and Guedes Soares, C., (2011), "Automatic Approach for Measuring Deformations in Complex Structures Using Photogrammetry Technique", *Pan-American Congress in Naval Architecture, Maritime Transport and Engineering (COPINAVAL XXII)*, 27-30 September, Buenos Aires, Argentina.

3.3.80 Gordo, J.M., (2011), "Transverse bending of stiffened panels induced by longitudinal stresses", (in Portuguese), *Congresso de Métodos Numéricos em Engenharia*, 14-17 June, Coimbra, Portugal.

3.3.81 Gordo, J.M., (2011), "Effect of initial imperfections on the strength of restrained plates", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper: OMAE2011-49161.

3.3.82 Oktem, A.S., Alankaya, V. and Guedes Soares, C. (2011), "Bending Analysis of Functionally Graded Plates using a Higher Order Shear Deformation Theory", *Ankara International Aerospace Conference (AIAC)*, 14-16 September, Ankara Turkey.

3.3.83 Chen, B.Q., Adak, M. and Guedes Soares, C. (2011), "Thermo-Mechanical Analysis of the Effects of Weld Parameters in Ship Plates During Welding Process", *ICSOT India 2011: Technological Innovation in Shipbuilding*, 8-9 December, Kharagpur, India.

3.3.84 Guedes Soares, C., Juncher Jensen, J., Incecik, A., Downes, J., Varsta, P., Gordo, J.M., Fricke, W., Vredeveldt, A., Jastrzebski, T., Hayman, B., Besnard, N., Codda, M., Das, P.K. and Garbatov, Y. (2011), "European Research in Marine Structures", *Proceedings of the Annual Meeting and Ship Production Symposium (SNAME 2011)*, 16-18 November, Houston, Texas, pp. 140-188.

3.3.85 Moita, P.P., Barradas Cardoso, J. and Barreiros, A. (2011), "Optimal design and control of mechanical systems with uncertain input", *Proceeding of the International Conference on Structural Engineering Dynamics (ICEDyn 2011)*, 20-22 June, Tavira, Portugal.

3.3.86 Xu, M.C. and Guedes Soares, C. (2012), "Ultimate strength of dented narrow stiffened panels subjected to compressive loads", *Proceedings of the 31st International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2012)*, 1-6 July, Rio de Janeiro, Brazil.

3.3.87 Xu, M.C., Fujikubo, M. and Guedes Soares, C. (2012), "Influence of model geometry and boundary conditions on the ultimate strength of stiffened panels under uniaxial compressive loading", *Proceedings of the 31st Internatinal Conference on Ocean, Offshore and Arctic Engineering (OMAE 2012)*, 1-6 Jul., Rio de Janeiro, Brazil.

3.3.88 Liu, B., Villavicencio, R. and Guedes Soares, C. (2012), "Experimental and Numerical Plastic Response and Failure of Laterally Impacted Rectangular Plates", *Proceedings of the 31st Internatinal Conference on Ocean, Offshore and Arctic Engineering (OMAE 2012)*, 1-6 Jul., Rio de Janeiro, Brazil.

3.3.89 Villavicencio, R., Kim, Y-H., Cho, S-R. and Guedes Soares, C. (2012), "Numerical Investigation on the Plastic Response of a Small-Scale Laterally Impacted Tanker Double Hull Structure", *Proceedings of the 31st Internatinal Conference on Ocean, Offshore and Arctic Engineering (OMAE 2012)*, 1-6 Jul., Rio de Janeiro, Brazil.

3.3.90 Xu, M.C., Teixeira, A.P. and Guedes Soares, C. (2012), "Polynomial based response surface approach for probabilistic modelling of the ultimate strength of stiffened panels", *20th Symposium on Theory and Practice of Shipbuilding (SORTA 2012)*, 27-29 September, Zagreb, Croatia.

3.3.91 Jiang, X. and Guedes Soares, C. (2013), "Effect of Initial Distortions on the Ultimate Capacity of Pitting Corroded Plates", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

3.3.92 Liu, B., Villavicencio, R. and Guedes Soares, C. (2013), "Influence of striker nose shape on the crack initiation and propagation on laterally impacted thin aluminium plates", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

3.3.93 Liu, B., Villavicencio, R. and Guedes Soares, C. (2013), "Plastic response and failure prediction of stiffened plates punched by a wedge", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

3.3.94 Moita, P.P., Barradas Cardoso, J. and Valido, A.J. (2013), "Limiting performance analysis of a vehicle restraint system", *Proceedings of the International Conference on Structural Engineering Dynamics (ICEDyn 2013)*, 17-19 June, Sesimbra, Portugal.

3.3.95 Valido, A.J. and Barradas Cardoso, J. (2013), "Optimal Geometry Laminated Thin-Walled Cross Sections", *Congress on Numerical Methods in Engineering*, 25-28 June, Bilbao, Spain.

3.3.96 Tekgoz, M., Garbatov, Y. and Guedes Soares, C. (2013), "Ultimate Strength Assessment of a Stiffened Plate Accounting for Welding Sequences", *12th International Symposium on Practical Design of Ships and Other Floating Structures (PRADS 2013)*, 20-25 October, Changwon, Gyeongnam, Korea, pp. 1089-1095.

3.3.96a Villavicencio, R., Liu, B. and Guedes Soares, C. (2013), "Response of a tanker side panel punched by a knife edge indenter", *International Conference on Collision and Grounding of Ships and Offshore Structures (ICCGS 2013)*, 17-19 June, Trondheim, Norway.

3.3.97 Gordo, J.M. and Guedes Soares, C. (2014), "Experimental Evaluation of the Ultimate Bending Moment of a Thin Box Girder", *Proceedings of the 33rd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2014)*, San Francisco, CA, USA, 8-13 June, Paper: OMAE2014-24645.

3.3.98 Li, C.F., Ren, H.L., Zhu, Z.Y. and Guedes Soares, C. (2015), "FEM Analysis on ultimate strength of aluminium stiffended panels with fixed and floating transverse frames", *34th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2015)*, 31 May-5 Jun, St. John's, NL, Canada, paper: OMAE2015-41482.

3.3.99 Risso, G., Cau, C., Garbatov, Y. and Guedes Soares, C. (2015), "Fatigue strength analysis of longitudinal bulkheads of passenger ships with large openings", *18th International Conference on Ships and Shipping Research (NAV 2015)*", 24-26 June, Milano, Italy, pp. 438-447.

3.3.100 Garbatov, Y. and Guedes Soares, C. (2015), "Experimental Evaluation of Ageing Marine Structures", *2015 World Maritime Technology Conference (WMTC 2015)*, 3-7 November, Providence, Rhode Island, New York, USA.

3.3.101 Jiang, X. and Guedes Soares, C. (2016), "Residual strength of pitted mild steel plate subjected to biaxial compression", *Proceedings of the 35th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2016)*, 19-24 June, Busan, South Korea.

3.3.102 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2016), "Reliability of offshore wind turbine support structures subjected to extreme wave-induced loads and defects", *Proceedings of the 35th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2016)*, 19-24 June, Busan, South Korea.

3.3.103 Chen, BQ. and Guedes Soares, C. (2016), "Effect of welding sequence on the residual stress distribution in a stiffened plate", *Proceedings of the 35th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2016)*, 19-24 June, Busan, South Korea.

3.3.104 Liu, B. and Guedes Soares, C. (2016), "Influence of impact location on the plastic response and failure of rectangular cross-section tubes struck transversely by a hemispherical indenter", *Proceedings of the 35th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2016)*, 19-24 June, Busan, South Korea.

3.3.105 Liu, B. and Guedes Soares, C. (2016), "Review of experimental work on energy absorption in ship structural components. 7th International Conference on Collisiuon and Grounding of Ships and Offshore Structures (ICCGS 2016)", 15-18 June, Ulsan, Korea, pp. 157-164.

3.3.106 Garbatov, Y. and Guedes Soares, C. (2017), "Spatial corrosion wastage modelling of steel plates subjected to marine environments", *Proceedings of the ASME 2016 36th International Conference on Ocean, Offshore and Arctic Engineering (OMAE17)*, 25-30 June, Trondheim, Norway.

3.3.107 Li, C.F., Fu, P., Ren, H.L., Xu, W.J. and Guedes Soares, C. (2017), "Ultimate bearing capacity assessment of hull girder with Asymmetric cross-section", *Proceedings of the ASME 2016 36th International Conference on Ocean, Offshore and Arctic Engineering (OMAE17)*, 25-30 June, Trondheim, Norway.

3.3.108 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2017), "Risk-based multi-objective optimisation of a monopile offshore wind turbine support structure", *Proceedings of the ASME 2016 36th International Conference on Ocean, Offshore and Arctic Engineering (OMAE17)*, 25-30 June, Trondheim, Norway.

3.3.109 Chen, B.Q. and Guedes Soares, C. (2018), "Numerical investigation on weld induced imperfections in aluminium ship plates", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

3.3.110 Chen, B.Q., Hashemzadeh, M., Garbatov, Y. and Guedes Soares, C. (2018), "Recent developments in experimental and numerical assessments of welding-induced residual stresses", *Proceedings of the*

ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018), 17-22 June, Madrid, Spain.

3.3.111 Gordo, J. M. and Guedes Soares, C. (2018), "Pure bending test on a box girder with low panel's slenderness", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

3.3.112 Liu, B., Chen, L., Liao, XT., Zhu, L. and Guedes Soares, C. (2018), "Finite element analysis of a container ship struck by rigid and deformable bows", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

3.3.113 Liu, B., Villavicencio, R., Liu, K., Zhu, L. and Guedes Soares, C. (2018), "Response of an aluminum stiffened plate under extreme slamming loadings", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

3.3.114 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2018), "Risk-based assessment of fixed offshore wind turbine support structures", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

3.3.115 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2018), "Strength assessment of jacket offshore wind turbine support structure accounting for rupture", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

3.3.116 Zhang, J., Liu, Q., Shi, X. and Guedes Soares, C. (2018), "Experimental study on the wave loads on monopile and jacket type support of offshore wind turbines", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

3.3.117 Yeter, B., Garbatov, Y., Guedes Soares, C., Punuai, W. and Azad, M.D.S. (2018), "Response of monopile offshore wind turbine structure subjected to seismic loads and degradation", *Proceedings of the 7th Asia Conference on Earthquake Engineering*, 22-25 November, Bangkok, Thailand.

3.3.118 Liu, B., Zhu, L. and Guedes Soares, C. (2019), "Numerical assessment of the crashworthiness of ship double-hull structures in grounding", *Third International Conference on Safety and Reliability of Ships, Offshore & Subsea Structures (SAROSS 2018)*, 23-24 May, Wuhan, China.

3.3.119 Chen, J., Liu, B., Villavicencio, R., Ji, J. and Guedes Soares, C. (2021), "Ship collision analysis of double hull structures in various ship types", *40th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2021)*, 21-30 June, Virtual online, Paper OMAE2021-61784.

3.3.120 Ji, J., Liu, B., Chen, L., Liao, XT. and Guedes Soares, C. (2021), "Evaluation of cumulative collapse of an LNG carrier hull girder under dynamic cyclic bending moments", *40th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2021)*, 21-30 June, Virtual online, Paper OMAE2021-61655.

3.3.121 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2021), "Structural Health Monitoring Data Analysis for Ageing Fixed Offshore Wind Turbine Structures", *40th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2021)*, 21-30 June, Virtual online, Paper OMAE2021-63007.

3.3.122 Georgiev, P., Angelov, A. and Garbatov, Y. (2022), "Shipyard construction, repair and recycling emissions impact on environmental pollution", *16th International Conference on Marine Sciences and Technologies (Black Sea 2022)*, October, Varna, Bulgaria, pp. 75-86.

3.3.123 Yalamov, D., Georgiev, P. and Garbatov, Y. (2022), "Liquefied natural gas (LNG) as an alternative for retrofitting ageing ships", *16th International Conference on Marine Sciences and Technologies (Black Sea 2022)*, October, Varna, Bulgaria, pp. 87-95.

3.5 PhD Dissertations

3.5.1 Garbatov, Y. (1998), "Reliability of Maintained Ship Structures Subjected to Corrosion and Fatigue", Instituto Superior Técnico, Lisbon.

3.5.2 Gordo, J.M. (2002), "Ultimate Strength of Ship Structures under Bending (*in Portuguese*)", Instituto Superior Técnico, Lisboa.

3.5.3 Rodrigues Branco, J.N. (2002), "Methodology for the Shaping of Ship Hull Components (*in Portuguese*)", Instituto Superior Técnico, Lisboa.

3.5.4 Ventura, M. (2005), “Structures Modeling in Computer-Aided Ship Design (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

3.5.5 Chen, N.-Z. (2006), “Ultimate Strength and Reliability of Ship Hulls in Composite Materials”, Instituto Superior Técnico, Lisboa.

3.5.6 Hussein, A.W. (2009), “Ultimate Strength and Reliability of Intact and Damage Ships”, Instituto Superior Técnico, Lisboa.

3.5.7 Moita, P.P. (2010), “Dynamic Response Optimization of Mechanical Systems Subjected to Shock Loadings Including Variable Time Domain *(in Portuguese)*”, Instituto Superior Técnico, Lisboa.

3.5.8 Mantari, J.L. (2012), “Behaviour of structural components in composite materials for ship structures”, Instituto Superior Técnico, Lisboa.

3.5.9 Saad-Eldeen, S. (2012), “Strength Assessment of Ageing Ship Structures”, Instituto Superior Técnico, Lisboa.

3.5.10 Villavicencio, R. (2012), “Response of ship structural components to impact loading”, Instituto Superior Técnico, Lisboa.

3.5.11 Xu, MC. (2013), “Ultimate strength and reliability of stiffened panels of ship structures”, Instituto Superior Técnico, Lisboa.

3.5.12 Edalat, P. (2013), “Vibration Analysis of Stiffened Parabolic Shell with application in Ship Structure”, Instituto Superior Técnico, Lisboa.

3.5.13 Liu, B. (2015), “Energy absorption of ship structural components under impact loading”, Instituto Superior Técnico, Lisboa.

3.5.14 Chen, B.Q. (2016), “Effects of Weld Induced Distortions and Residual Stresses on the Ultimate Strength of Stiffened Plates”, Instituto Superior Técnico, Lisboa.

3.5.15 Hashemzadeh, M. (2018), “Numerical and experimental study of welded ship structural components”, Instituto Superior Técnico, Lisboa.

3.5.16 Dong, Y. (2019), “Low cycle fatigue strength assessment of ship structures”, Instituto Superior Técnico, Lisboa.

3.5.17 Jafaryeganeh, H. (2020), “Optimization of the internal hull compartmentation of oil tankers. Lisboa”, Instituto Superior Técnico, Lisboa.

3.5.18 Kharghani, N. (2020), “Influence of Delamination and Debonding on the Behaviour of Marine Composite Components”, Instituto Superior Técnico, Lisboa.

3.5.19 Alizadeh, F. (2022), “Assessment of degraded material properties on the strength of marine composite structures”, Instituto Superior Técnico, Lisboa.

3.6 MSc Dissertations

3.6.1. Gordo, J.M. (1993), “Longitudinal Strength of Ships”, Universidade de Glasgow, United Kingdom.

3.6.2. Ventura, M. (1996), “Ship Hull Representation by Non-Uniform Rational B-Spline Surface Patches”, Universidade de Glasgow, United Kingdom.

3.6.3. Cacho, A. J. (1998), “Computer-Aided Development of Shell Plates”, University of Glasgow, United Kingdom.

3.6.4. Vitória, J. (2002), “Plate Nesting System for the Maritime Industry with STEP Interface (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

3.6.5. Varela, J. M. (2004), “Virtual Reality Models for Ship Damage Control”, University of Glasgow, United Kingdom.

3.6.6. Dimas, D.M. (2006), “Impact Strength of Ship Structures”, Instituto Superior Técnico, Lisboa.

3.6.7. Luís, R.M. (2007), “Strength of damaged rectangular plates subject to compression (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

3.6.8. Silva, C.A. (2007), “Simulation of Cargo Movements at an Intermodal Terminal (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

3.6.9. Franco, R. (2008), “Production of components in composite materials by resin infusion (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

3.6.10. Golea, F.D. (2008), “Energy Absorption of Steel Welded Beams Subjected to Transverse Impact”, Instituto Superior Técnico, Lisboa.

3.6.11. Rodrigues, J.M. (2008), “Interactive docking simulator of ships in a tridimensional environment (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

3.6.12. Witkowska, M. (2008), “Ultimate Strength of Imperfect and Damaged Stiffened Plates under Compression”, Instituto Superior Técnico, Lisboa.

3.6.13. Lourenço, R.M.G. (2010), “Automatic planning method for plates adapted to the production process (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

3.6.14. Ruas, João A.C. (2010), “Non-Linear Optimization Applied to initial Ship Design (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

3.6.15. Silva, Hugo E.S.C. Barros, (2010), “Propulsive Resistence Prediction in Multi-Hull Ships (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

3.6.16. Chen, B.Q. (2011), “Prediction of heating induced temperature fields and distortions in steel plates”, Instituto Superior Técnico, Lisboa.

3.6.17. Liu, B. (2011), “Experimental and Numerical Study on the Impact Strength of Beams and Plates”, Instituto Superior Técnico, Lisboa.

3.6.18. Mantari, J.L. (2011), “Stability of Fishing Vessels in Waves and Wind”, Instituto Superior Técnico, Lisboa.

3.6.19. Rodrigues, M.V. (2011), “Probabilistic characterization of the ultimate strength of plates with initial geometrical imperfections”, Instituto Superior Técnico, Lisboa.

3.6.20. Silva, J.E. (2011), “Modeling and analysis of damaged rectangular steel plates subjected to compressive stress”, Instituto Superior Técnico, Lisboa.

3.6.21. Wang, S. (2011), “Assessment of slam induced loads on two dimensional wedges and ship sections”, Instituto Superior Técnico, Lisboa.

3.6.22. Barcelo, A. C. (2012), “Structural assessment based on photogrammetry measurements and finite element”, Instituto Superior Técnico, Lisboa.

3.6.23. Leal, Miguel, (2012), “Cost structure of the production process of the repair of ship (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.

3.6.24. Tekgoz, M. (2012), “Strength assessment of imperfect stiffened panels using modified stress”, Instituto Superior Técnico, Lisboa.

3.6.25. Ferrão, J. (2013), “Fatigue effective stress and damage assessment of a large cruise ship”, Instituto Superior Técnico, Lisboa.

3.6.26. Yeter, B. (2013), “Fatigue Analysis of Wind Turbine Supporting Structures”, Instituto Superior Técnico, Lisboa.

3.6.27. Castilho, T., (2014), “Impact Resistance of Marine Sandwich Structures”, Instituto Superior Técnico, Lisboa.

3.6.28. Carvalho, S., (2015), “Structural analysis of open deck hulls subjected to bending, shear and torsional loadings”, Instituto Superior Técnico, Lisboa.

3.6.29. Soares de Melo, D. (2015), “MarSoft. automated yacht mast and rigging system design and analysis”, Instituto Superior Técnico, Lisboa.

3.6.30. Sousa, S. (2015), “Colapso do revestimento de chapas de aco em tanques de lastro // Coating breakdown analysis of steel plates in ballast tanks”, Instituto Superior Técnico, Lisboa.

3.6.31. Vasconcelos, J. (2015), “Project design of a surface autonomous vehicle”, Instituto Superior Técnico, Lisboa.

3.6.32. Barbosa, A. (2016), “Strength analysis of corroded pipelines subjected to internal pressure and bending moment”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.33. Fernandes, F. (2016), “Projecto e Dimensionamento de um Catamarã em Materiais Compósitos”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.34. Repolho, C. (2016), “Integrated and Multi-Objective Optimization Approach to Ship Design applied to improve”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.35. Sanches, F. (2016), “Modelação Paramétrica do Casco para Optimização de Navios (Parametric Modelling of Hull Form for Ship Optimization)”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.36. Stephan, S. (2016), “Behaviour of composite plates under compression”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.37. Chichi, D. (2017), “Retrofit of ship structural degradation”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.38. Sisci, F. (2017), “Risk based ship hull structural design and maintenance planning”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.39. Oliveira, A.L. (2017), “Study of the production process in the shipbuilding industry”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.40. Nascimento, F.R. (2017), “WindSuf-Fin – Numerical and experimental analysis of ultimate strength”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.41. Paiva, M. (2018), “Fatigue Strength Assessment of Welded Joints Employing Peak Stress Method”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.42. Almany, N. (2018), “Ship and structural design and analysis of offshore patrol vessel”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.43. Huang, Y. (2018), “Optimal design of a stiffened plate subjected to combined longitudinal and lateral loads”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.45. Santos, A.M.R. (2018), “Hydrodynamic analysis of wave-induced loads on slalom fin of windsurf board”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.46. Mateus, G. (2018), “Preliminary design of river ship accounting for ice class in life cycle cost”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.47. Vitorino, A. (2019), “Inspection and control of ageing ship structures”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.48. Balzer, E. (2019), “Development of a design tool for investigating lay-up schedule designs of a composite windsurfer fins”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.49. Melo, J. (2019), “Production methodologies applied to the fluid system outfitting on a construction and repair shipyard”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.50. Roque, P.R.Z. (2019), “A systematic approach to measure shipbuilding productivity”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.51. Teixeira, G.N.S. (2019), “Thermal technology for the straightening and relieve of residual stresses in steel welded panels”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.52. Almeida, B.S. (2020), “Sizing of cargo and passenger capacity of Ro-Ro passenger ships”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.53. Campos, J.S.N.P. (2020), “Development of a hull generation method based on FORMDATA systematic series”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.54. Franco, J. P. S. (2020), “Study of an ultra large container ship under pure vertical bending moment”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.55. Ladeiro, A. (2020), “Design of autonomous inland vessels with low emissions propulsion”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.56. Mateus, A.P.L. (2020), “Buckling and ultimate strength of stiffened panels”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.57. Sarrico, A.C.R.C. (2020), “Assessment of ship electric power consumption”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.58. Machado da Silva, J.P.C.C. (2021), "FPSO hull structures with sandwich plate system in cargo tanks", MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.59. Machado, R.D.R.R. (2021), "Geometrical characterization of ship structural design", MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.60. Duarte, B.C. (2022), "Pull system features implementation into the internal logistics of a leisure boatyard", MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.61. Koni, E. (2022), "Risk-based Ship Hull Hybrid Structural Design and Optimisation Employing Genetic Algorithm", MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.62. Marreiros, G.C. (2022), "Hull Compartment Layout of Containerships", MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.63. Vieira, G.H. (2022), "Numerical Structural Analysis of a Sailing Yacht Mast", MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.64. Reis, P.C. (2022), "Parametric Modelling of Hull Forms for Merchant Ships", MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

3.6.65. Pereira, T. B. (2022), "Probability Cost-Benefit Analysis for Ship Structural Design", MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

4. SHIP DESIGN AND MARITIME TRANSPORTATION (Discontinued in 2008. Papers integrated in groups 2, 3 and 5.)

4.1 Papers in Journals

4.1.1 Ventura, M., Rodrigues, C. and Guedes Soares, C. (1996), "Development of a System for Computer-Aided Design of Ship Hulls" (in Portuguese), *Ingenieria Naval*, Issue 732, pp.52-60

4.1.2 Ventura, M. and Guedes Soares, C. (2001), "Application of NURBS curves and surfaces to hull form modelling", *Ingenium*, Vol. 28, Issue 2, pp. 73-79.

4.1.3 Vitória, J. and Guedes Soares, C., (2005), "A Method for Automatic Nesting of Ship Plates", *Journal of Ship Production*, Vol. 21, Issue 1, pp. 14-27.

4.1.4 Rodrigues Branco, J.N. and Guedes Soares, C. (2005), "Mapping of Shell Plates of Double Curvature into Plane Surfaces", *Journal of Ship Production*, Vol. 21, Issue 4, pp. 248-257.

4.1.5 Oliveira, A., Fonseca N. and Guedes Soares, C. (2006), "Design of a Modern Purse Seiner Fishing Vessel for the Portuguese Costal Sea", *International Journal of Small Craft Technology* (RINA Transactions), Vol. 148, Part B1, pp. 11-24.

4.1.6 Varela J.M. and Guedes Soares, C. (2007), "A Virtual Reality Model for Ship Damage Control", *Computer Graphics & Applications*, Vol. 27, Issue 4, pp. 58-69.

4.1.7 Ventura M. and Guedes Soares, C. (2007), "Application of STEP Technology to Ship Repair Data Management", *Journal of Ship Production*, Vol. 23, Issue 4, pp. 231-237.

4.2 Papers in Books

4.2.1 Ventura, M., Rodrigues, C. and Guedes Soares, C. (1995), "Development of a System for Computer-Aided Design of Ship Hulls", *Marine Technology and Transportation*, Graczyk, T., Jastrzebski, I., Brebbia, C.A. and Burns, R. (Eds.), Southampton, UK, pp. 287-294.

4.2.2 Blot, J.Y., Ruiz, P., Ventura, M. and Guedes Soares, C. (1995), "Application of Automatic Methods to the Study of Ancient Hulls", *Shipbuilding in the Past and Present, Naval Architecture and Marine Engineering in Portugal*, (in Portuguese), Vol. X, Guedes Soares, C. (Ed.), Lisbon, pp. 5.1-5.36.

4.2.3 Rodrigues, C., Lima, F.S., Ventura, M. and Guedes Soares, C. (1995), "The CADESNAV/-PC System for support to Ships' Design and Production", *Shipbuilding in the Past and Present*, Naval Architecture and Marine Engineering in Portugal (in Portuguese), Vol. X, Guedes Soares, C. (Ed.), Lisbon, pp. 10.1-10.13.

4.2.4 Vitória, J., Ventura, M. and Guedes Soares, C. (1995), "Ships' Shape System Representation", *Shipbuilding in the Past and Present, Naval Architecture and Marine Engineering in Portugal* (in Portuguese), Vol. X, Guedes Soares, C. (Ed.), Lisbon, pp. 11.1-11.12.

4.2.5 Torrado, T., Coelho, J.J., Pilar, A.P., Ventura, M. and Guedes Soares, C. (1995), "Ships' Structure System Representation", *Shipbuilding in the Past and Present, Naval Architecture and Marine Engineering in Portugal* (in Portuguese), Vol. X, Guedes Soares, C. (Ed.), Lisbon, pp. 12.1-12.22.

4.2.6 Ventura, M., Gordo, J.M. and Guedes Soares, C. (1995), "Computer-Aided Ship Structural Design", *Shipbuilding in the Past and Present*, Naval Architecture and Marine Engineering in Portugal (in Portuguese), Vol X, Guedes Soares, C. (Ed.), Lisbon, pp. 13.1-13.14.

4.2.7 Ventura, M. and Guedes Soares, C. (1998), "Hull Form Modelling using NURBS Curves and Surfaces", *Practical Design of Ships and Mobile Units*, Oosterveld, M.W.C. and Tan, S.G. (Eds.), Elsevier Science, The Hague, pp. 289-296.

4.2.8 Ventura, M., Victoria, J. and Guedes Soares, C. (1999), "Ship Hull Product Model", *Application of Information Technologies to the Maritime Industries*, Guedes Soares, C. and Brodda, J. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 147-162.

4.2.9 Cacho, A.J. and Guedes Soares, C. (2000), "A Plate Development Method Based in Geodesics", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. e Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 411-430.

4.2.10 D'Almeida, J. (2000), "Maritime Transport of Natural Gas", *The Sea and the Challenges of the Future* (in Portuguese*)*, Guedes Soares, C. e Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 539-555.

4.2.11 Ventura, M., Victória, J. and Guedes Soares, C. (2000), "Integration of STEP Technology in a Ship Product Data Modelling System", *The Sea and the Challenges of the Future, (*in Portuguese), Guedes Soares, C. e Beirão Reis, J. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 387-409.

4.2.12 Vitória, J., Bernardo, J. and Guedes Soares, C. (2000), "System of Plates Nesting for the Maritime Industry", *The Sea and the Challenges of the Future*, (in Portuguese), Guedes Soares, C. e Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 431-448.

4.2.13 Lemos, R., Ventura de Sousa, J. and Guedes Soares, C. (2000), "Evolution of the Container Ships and its Impact on the Port Sector", *The Sea and the Challenges of the Future*, (in Portuguese), Guedes Soares, C. e Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 557-579.

4.2.14 Varela, J.M. and Guedes Soares, C. (2002), "Virtual Visualization and Propagation Control of Ship Fluids", *The Sea, Source of SustainableDdevelopment*, Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M.B. (Eds.), Edições Salamandra, Lda., Lisbon, pp.477-490.

4.2.15 Pradillon, J.-Y., Beach, J., Bohlmann, B., Boote, D., Hage, A., Janssen, G., Kada, K., Lee, S.-G., Li, X., Ventura, M., Wu, C.-C. and Zanic, V. (2003), "Design Methods", *Ship and Offshore Structures Congress (ISSC 2003)*, Elsevier, 11-15 August, San Diego, USA, Vol. 1, Committee IV.2, pp. 447-509.

4.2.16 Ferrreira, S.A. and Guedes Soares, C. (2004), "Port value system", *Maritime Activities and Engineering* (in Portuguese), 2004, Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda., Lisbon, pp. 195-217.

4.2.17 Rodrigues, J.A. and Guedes Soares, C. (2004), "Docking simulation at a Shiprepair Shipyard", *Maritime Activities and Engineering*, (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda, Lisbon, pp. 31-42.

4.2.18 Rodrigues, L.B. and Guedes Soares, C. (2004), "Simulation of Cargo movements' at a containership terminal", *Maritime Activities and Engineering*, (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda., Lisbon, pp. 219-233.

4.2.19 Varela, J.M. and Guedes Soares, C. (2004), "Virtual ship support model to avoid ship failure", *Maritime Activities and Engineering*, (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda, Lisbon, pp. 713-725.

4.2.20 Antão, P., Guedes Soares, C. and Gerretsen, A. (2005), "Benchmarking Analysis of European Ports and Terminals", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Francis & Taylor Group, London, UK, Vol. 2, pp. 1301-1310.

4.2.21 Varela, J.M. and Guedes Soares, C. (2005), "Survey of Techniques for Real-Time Visualization of the Ocean Surface", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Francis & Taylor Group, London, UK, Vol. 2, pp. 1167-1174.

4.2.22 Silva, C., Peixe, N. and Guedes Soares, C. (2006), "Simulation Cargo movements' at the containership terminals of the Port of Leixões", *Innovation and Development in the Maritime Activities*, (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. XIV, pp. 189-206.

4.2.23 Varela, J.M. and Guedes Soares, C. (2006), "Real time visualization of the sea surface by using directional wave spectra", *Innovation and Development in the Maritime Activities*, (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. XIV, pp. 703-716.

4.2.24 Guedes Soares, C. and Salvador, R. (2006), "Methodologies to estimate competitiveness and inter-sectorial liaisons in a Sea Cluster", *Innovation and Development in the Maritime Activities*, (in Portuguese), Guedes Soares, C. and V. G. Brito (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. XIV, pp. 85-101.

4.2.25 Hage, A., Boote, D., Bronsart, R., Chen, Q., Kada, K., Karr, D., McVee, J.D., Ulfvarson, A., Ventura, M., Wu, C-C., Yang, V. and Zhang, S.-K. (2006), "Design Methods", *Ship and Offshore Structures Congress (ISSC 2006)*, Frize, P.A. And Shenoi, R.A. (Eds.), 20-25 August, Southampton, UK, Vol. 1, Committee IV.2, pp. 609-686.

4.2.26 Ferreira Correia, A., Salvador, R., Liberato, J. and Guedes Soares, C. (2008), "Maritime Clusters in the EU: Structure and Governance", *The Portuguese Maritime Sector*, (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda., Lisbon.

4.2.27 Silva, C., and Guedes Soares, C. (2008), "Cargo movements' simulation and validation at an intermodal terminal", *The Portuguese Maritime Sector*, (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda., Lisbon.

4.2.28 Liberato, J., Salvador, R. and Guedes Soares, C. (2008), "The Portuguese Maritime Cluster in a European and World context", *The Portuguese Maritime Sector*, (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda. Lisbon.

4.2.29 Varela, J.M., and Ventura, M. (2008), "Generation of triangular mesh representing ship hulls with NURBS surfaces", *The Portuguese Maritime Sector*, (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda., Lisbon.

4.2.30 D'Almeida, J. (2008), "Highways of the Seas: Utopia or Reality?", *The Portuguese Maritime Sector*, (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), 2008, Edições Salamandra, Lda., Lisbon.

4.2.31 Salvador, R., and Guedes Soares, C. (2008), "The Leontief matrix as an instrument to analyze a Cluster: model and opening of sectors", *The Portuguese Maritime Sector*, (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda. Lisbon.

4.2.32 Santos, T., and Guedes Soares, C. (2008), "Analysis of the tendencies of cargo movements' at Portuguese Ports", *The Portuguese Maritime Sector*, (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda., Lisbon.

4.2.33 Fernandes Palma, S. and Quaresma Dias, J. (2008), "Performance assessment of the principal containership terminals in the Iberian Peninsula", *The Portuguese Maritime Sector*, (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda. Lisbon.

4.2.34 Quaresma Dias, J., Ferreira Calado, Luís, R.M., Ósorio, A. and Morgado, L.F. (2008), "Portugal and the Highways of the Seas: Opportunities of technological development", *The Portuguese Maritime Sector*, (in Portuguese), Guedes Soares, C. and Costa Monteiro, C. (Eds.), Edições Salamandra, Lda. Lisbon.

4.2.35 Varela, J.M., Ventura, M., and Guedes Soares, C. (2009), "Digital prototyping of hull structures in basic design", *Analysis and Design of Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 457-465.

4.3 Conference Proceedings

4.3.1 Ventura, M., Cacho, A., Torrado, T. and Guedes Soares, C. (1995), "Computer-Aided Generation of Ship Hull Structures on Small Computers", *Proceedings of the International Symposium Computer-Aided Design & Production for Small Craft*, Southampton, UK, September, Vol. 12, pp. 1-8.

4.3.2 Ventura, M. and Guedes Soares, C. (1998), "Hull Form Modelling Using NURBS Curves and Surfaces", *Ship Design, Shipbuilding and Ship Maintenance* (in Portuguese), David e Silva, F. and Rodrigues Mateus, A. (Eds.), Lisbon, pp. 14.1-14.15.

4.3.3 Silva, F. and Guedes Soares, C. (2000), "3D Virtual Environments for Ship Manoeuvring Simulation", *Proceedings of the 1st International EuroConference on Computer Applications and Information Technology in the Maritime Industries (COMPIT'00)*, 29 March-2 April, Potsdam, Germany, pp. 438-448.

4.3.4 Ventura, M., Vitória, J. and Guedes Soares, C., (2000), "Implementation of STEP Translators Using the Ship Hull Product Model", *Proceedings of the 1st International EuroConference on Computer Applications and Information Technology in the Maritime Industries (COMPIT'00)*, 29 March-2 April, Potsdam, Germany, pp. 463-476.

4.3.5 Wieland, P., Odendahl, C., Weitzenböck, E., Jaramillo, D., Makris, S., Cacho, A. and Guedes Soares, C. (2000), "Process and Data Modelling for a Maritime Virtual Enterprise" *Proceedings of the 1st International EuroConference on Computer Applications and Information Technology in the Maritime Industries (COMPIT'00)*, 29 March-2 April, Potsdam, Germany, pp. 323-336.

4.3.6 Ventura, M. and Guedes Soares, C. (2002), "Exchange and Sharing of Ship Product Data", *Proceedings of the WEGEMT*, 11-15 November, Madrid, Spain.

4.3.7 Monev, V., Santos, T.A., Ventura, M. and Guedes Soares, C. (2002), "Automatic Generation of the Geometric Definitions of Ship Subdivision for Damage Stability Optimisation", *Proceedings of the 6th International Conference on Marine Science and Technology (Black Sea´02)*, 10-12 October, Varna, Bulgaria.

4.3.8 Varela, J.M. and Guedes Soares, C. (2002), "An Object Oriented Architecture of a Fluid Dissemination Virtual Environment in a Ship", *Proceedings of the SIM OUEST 2002*, 28-29 November, Nantes, France.

4.3.9 Varela, J., Santos, T.A. and Guedes Soares, C. (2003), "Simulation of Fluid Dissemination in a Virtual Reality Environment Onboard the Ship", *Proceedings of the 2nd International Conference on Computer Applications and Information Technology in the Maritime Industries (COMPIT'03)*, 14-17, Hamburg, Germany, pp. 432-443.

4.3.10 Varela, J.M., Santos, T.A. and Guedes Soares, C. (2004), "Visualization and Control of Ship Flooding Simulation in Virtual Environment", *Proceedings of the Congress on the Computational Methods in Engineering (CMCE´04)*, 31 May-2 June, Lisbon, Portugal.

4.3.11 Oliveira, A., Fonseca, N. and Guedes Soares, C. (2005), "Design of a Modern Purse Seiner Fishing Vessel for the Portuguese Costal Sea", *Proceedings of the RINA Conference on Fishing Vessels, Fishing Technology and Fisheries*, 13-14 April, Newcastle, U.K.

4.3.12 Silva, C.A. and Guedes Soares, C. (2007), "The use of simulation in the design of intermodal terminals", *Proceedings of the 5th Portuguese Seminar on Coastal and Port Engineering*, (in Portuguese), 11-12 October, Lisbon, Portugal.

4.3.13 Ferreira, M., Silva, C.A. and Guedes Soares, C. (2007), "Cargo movements' simulation at the intermodal terminal of the Port of Leixões", *Proceedings of the 5th Portuguese Seminar on Coastal and Port Engineering*, (in Portuguese), 11-12 October, Lisbon, Portugal.

4.3.14 Silva, C.A. and Guedes Soares, C. (2007), "Cargo movements' simulation at an intermodal terminal", *Pan-American Conference on Naval Architecture, Marine Transportation and Port Engineering (IV Ibero-American Conference on Naval Architecture) (XX COPINAVAL)*, (in Portuguese), 22-26 October, São Paulo, Brazil.

4.3.15 Cabos, C., Jaramillo, D., Stadie-Frohbös, G., Renard, P., Ventura, M. and Dumas, B. (2008), "Condition Assessment Scheme" *Proceedings of the 7th International Conference on Computer Applications and Information Technology in the Maritime Industries (Compit´08)*, 21-23 April, Liege, Belgium.

4.3.16 Varela, J.M., Ventura, M. and Guedes Soares, C. (2008), "Fast Ship Structures Modelling System for Hull Maintenance Support", *Proceedings of the Ship Repair Technology (SRT´08)*, 1-2. September, Newcastle, UK.

5 SAFETY AND LOGISTICS OF MARITIME TRANSPORTATION

5.1 Papers in Journals

5.1.1 Guedes Soares, C. and Moan, T. (1982), "Risk Analysis and Safety of Ship Structures" (in Portuguese), *Ingenieria Naval*, Vol. 50, Issue 564, pp .202-212 + 223.

5.1.2 Guedes Soares, C. and Moan, T. (1982), "Statistical Analysis of Still-Water Bending Moments and Shear Forces in Tankers, Ore and Bulk Carriers", *Norwegian Maritime Research*, Vol. 10, Issue 3, pp. 33-47.

5.1.3 Guedes Soares, C. and Moan, T. (1983), "Statistical Analysis of Still-Water Bending Moments and Shear Forces in Tankers, Ore and Bulk Carriers" (in Portuguese), *Ingenieria Naval*, Vol. 51, pp. 75-89.

5.1.4 Guedes Soares, C. (1985), "Safety of Ship Structures" (in Portuguese), *Anais do Clube Militar Naval*, Vol. 115, pp. 209-239.

5.1.5 Guedes Soares, C. and Moan, T. (1988), "Statistical Analysis of Still Water Load Effects in Ship Structures", *Transactions of the Society of Naval Architects and Marine Engineers*, New York, Vol. 96, Issue 4, pp. 129-156.

5.1.6 Guedes Soares, C. (1988), "Uncertainty Modelling in Plate Buckling", *Structural Safety*, Vol. 5, pp. 17-34.

5.1.7 Guedes Soares, C. and Ivanov, L.D. (1989), "Time Dependent Reliability of the Primary Ship Structure", *Reliability Engineering and System Safety*, Vol. 26, pp. 59-71.

5.1.8 Guedes Soares, C. (1989), "Probabilistic Models for the Quantification of Safety Regulations on Ship Structures" (in Spanish), *Ingenieria Naval*, Vol. 57, Issue 645, pp. 109-118.

5.1.9 Guedes Soares, C. (1990), "Stochastic Modelling of Maximum Still-Water Load Effects in Ship Structures", *Journal of Ship Research*, Vol. 34, Issue 3, pp. 199-205.

5.1.10 Guedes Soares, C. (1990), "Influence of Human Control on the Probability Distribution of Maximum Still-Water Load Effects in Ships", *Marine Structures*, Vol. 3, pp. 319-339.

5.1.11 Guedes Soares, C. and Kmiecik, M. (1993), "Simulation of the Ultimate Compressive Strength of Unstiffened Rectangular Plate", *Marine Structures*, Vol. 6, pp. 553-569.

5.1.12 Guedes Soares, C. and Garbatov, Y. (1996), "Fatigue Reliability of the Ship Hull Girder", *Marine Structures*, Vol. 9, Issues 3-4, pp. 495-516.

5.1.13 Guedes Soares, C. and Garbatov, Y. (1996), "Fatigue Reliability of the Ship Hull Girder Accounting for Inspection and Repair", *Reliability Engineering and System Safety*, Vol. 51, pp. 341-351.

5.1.14 Guedes Soares, C. and Garbatov, Y. (1996), "Reliability of Maintained Ship Hulls Subjected to Corrosion", *Journal of Ship Research*, Vol. 40, Issue 3, pp. 235-243.

5.1.15 Guedes Soares, C. and Dias, S. (1996), "Probabilistic Models of Still-Water Load Effects in Containers", *Marine Structures*, Vol. 9, Issues 3-4, pp. 287-312.

5.1.16 Östergaard, C., Otto, S., Teixeira, A. and Guedes Soares, C., (1996), "A Reliability Based Proposal for Modern Structural Design Rules of the Ultimate Vertical Bending Moment of Containerships", *Schiffbautechnischen Gesellschaft*, Vol. 90, pp. 515-527.

5.1.17 Guedes Soares, C., Dogliani, M., Ostergaard, C., Parmentier, G. and Pedersen, P.T. (1996), "Reliability Based Ship Structural Design", *Transactions SNAME*, Vol. 104, pp. 357-389.

5.1.18 Ostergaard, C., Dogliani, M., Guedes Soares, C., Parmentier, G. and Pedersen, P.T. (1996), "Measures of Model Uncertainty in the Assessment of Primary Stresses in Ship Structures", *Marine Structures*, Vol 9, Issues 3-4, pp. 427-448.

5.1.19 Matthies, H., Brenner, C., Bucher, C. and Guedes Soares, C. (1997), "Uncertainties in Probabilistic Numerical Analysis of Structures and Solids - Stochastic Finite Elements", *Structural Safety*, Vol. 19, Issue 3, pp. 283-336.

5.1.20 Guedes Soares, C., (1997), "Reliability of Components in Composite Materials" *Reliability Engineering and System Safety*, Vol. 55, pp. 171-177.

5.1.21 Sutherland, L.S. and Guedes Soares, C. (1997), "Review of Probabilistic Models of the Strength of Composite Materials", *Reliability Engineering and System Safety*, Vol. 56, pp. 183-196.

5.1.22 Guedes Soares, C. and Garbatov, Y. (1997), "Reliability Assessment of Maintained Ship Hulls with Correlated Corroded Elements", *Marine Structures*, Vol. 10, pp. 629-653.

5.1.23 Casella, G., Dogliani, M. and Guedes Soares, C. (1997), "Reliability Based Design of the Primary Structure of Oil Tankers", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 119, pp. 263-269.

5.1.24 Garbatov, Y. and Guedes Soares, C. (1998), "Fatigue Reliability of Maintained Welded Joints in the Side Shell of Tankers", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 120, Issue 1, pp. 2-9.

5.1.25 Shetty, N.K., Guedes Soares, C., Thoft-Christensen, P. and Jensen, F.M. (1998), "Fire Safety Assessment and Optimal Design of Passive Fire Protection for Offshore Structures", *Reliability Engineering and System Safety*, Vol. 61, pp. 139-149.

5.1.26 Guedes Soares, C. and Garbatov, Y. (1998), "Reliability of Maintained Ship Hull Girders Subjected to Corrosion and Fatigue", *Structural Safety*, Vol. 20, Issue 3, pp. 201-219.

5.1.27 Guedes Soares, C. (1998), "Structural Safety at Sea", *IST Science and Technology"*, Issue 2, pp. 13-17.

5.1.28 Guedes Soares, C. and Garbatov, Y. (1999), "Reliability of Maintained Hull Girders of Two Bulk Carrier Designs Subjected to Fatigue and Corrosion", *Ship and Ocean Technology*, Vol. 3, Issue.1, pp. 27-41.

5.1.29 Guedes Soares, C. and Garbatov, Y. (1999), "Reliability of Maintained Ship Hulls Subjected to Corrosion and Fatigue under Combined Loading", *Journal of Constructional Steel Research*, Special Issue on Reliability Design and Assessment of Steel Structures, Vol. 52, Issue 1, pp. 93-115.

5.1.30 Guedes Soares, C. and Garbatov, Y. (1999), "Reliability of Corrosion Protected and Maintained Ship Hulls Subjected to Corrosion and Fatigue", *Journal of Ship Research*, Vol.43, Issue 2, pp. 65-78.

5.1.31 Guedes Soares, C. and Garbatov, Y. (1999), "Reliability of Maintained, Corrosion Protected Plates Subjected to Non-Linear Corrosion and Compressive Loads", *Marine Structures*, Vol. 12, Issue 6, pp. 425-446.

5.1.32 Guedes Soares, C. and Teixeira, A. (2000), "Probabilistic Modelling of Offshore Fires", *Fire Safety*, Vol. 34, pp. 25-45.

5.1.33 Guedes Soares, C. and Teixeira, A. (2000), "Structural Reliability of Two Bulk Carrier Designs", *Marine Structures*, Vol. 13, Issue 2, pp. 107-128.

5.1.34 Guedes Soares, C. and Dogliani, M. (2000), "Probabilistic Modelling of Time-Varying Still-Water Load Effects in Tankers", *Marine Structures*, Vol. 13, Issue 2, pp. 129-143.

5.1.35 Santos, T.A. and Guedes Soares, C. (2001), "Ro-Ro Ship Damage Stability Calculations using the Pressure Integration Technique", *International Shipbuilding Progress*, Vol. 48, Issue 2, pp. 169-188.

5.1.36 Garbatov, Y. and Guedes Soares, C. (2001), "Cost and Reliability Based Strategies for Fatigue Maintenance Planning of Floating Structures". *Reliability Engineering and System Safety*, Vol. 73, Issue 3, pp. 293-301.

5.1.37 Guedes Soares, C. and Teixeira, A.P. (2001), "Risk Assessment in Maritime Transportation", *Reliability Engineering and System Safety*, Vol. 74, pp. 299-309.

5.1.38 Kmiecik, M. and Guedes Soares, C. (2002), "Response Surface Approach to the Probability Distribution of the Strength of Compressed Plates", *Marine Structures*, Vol. 15, Issue 2, pp. 139-156.

5.1.39 Barata, J., Guedes Soares, C., Marseguerra, M. and Zio, E. (2002), "Simulation modelling of repairable multi-component deteriorating systems for 'on condition' maintenance optimisation", *Reliability Engineering and System Safety*, Vol. 76, pp. 255-264.

5.1.40 Garbatov, Y. and Guedes Soares, C. (2002), "Bayesian Updating in the Reliability Assessment of Maintained Floating Structures", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 124, pp. 139-145.

5.1.41 Ferreira, S.A. and Guedes Soares, C. (2002), "Influence of the Subdivision in the Performance of Ship Tanks" (in Portuguese), *Ingenium*, Vol. 68, 2ª série, pp. 77-82.

5.1.42 Santos, T.A. and Guedes Soares, C. (2002), "Probabilistic Survivability Assessment of Damaged Passenger Ro-Ro Ships using Monte-Carlo Simulation", *International Shipbuilding Progress*, Vol. 49, Issue 4, pp. 275-300.

5.1.43 Ravn, E.S., Jensen, J. J., Baatrup, J., Papanikolau, A., Zaraphonitis, G., Eliopoulou, E., Vassalos, D., Tuzcu, C., Santos, T. A., Ferreira, S.A. and Guedes Soares, C. (2002), "Robustness of the Probabilistic Damage Stability Concept to the Degree of Details in the Subdivision", *Journal of Ship Technology Research*, Vol. 49, pp. 151-159.

5.1.44 Sun, H.-H. and Guedes Soares, C. (2003), "Reliability-Based Structural Design of Ship-Type FPSO Units", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 125, pp. 108-113.

5.1.45 Chen, N.-Z., Sun, H.-H. and Guedes Soares, C. (2003), "Reliability Analysis of a Ship Hull in Composite Material", *Composite Structures*, Vol. 62, pp. 59-66.

5.1.46 Garbatov, Y. and Guedes Soares, C. (2004), "Influence of Steel Strength on the Fatigue Reliability of Welded Structural Components", *International Journal of Fatigue*, Vol. 26, pp. 753-762.

5.1.46a Evandt, O., Coleman, S.Y., Ramalhoto, M.F. and van Lottum, C. (2004), "A Little Known Robust Estimator of the Correlation Coefficient and Its Use in a Robust Graphical Test for Bivariate Normality with Applications in the Aluminium Industry", *Quality and Reliability Engineering International*, Vol. 20, Issue 5, pp. 433-546.

5.1.46b Kenett, R., Ramalhoto, M.F. and Shade, J. (2005), "Statistical Practitioners: A New Profession in Business and Industry", *Scientific Computing World*, Issue 81, pp. 41-42.

5.1.47 Santos, T.A. and Guedes Soares, C. (2005), "Monte-Carlo Simulation of Damaged Ship Survivability", *Journal of Engineering for the Maritime Environment*, Vol. 219, Part M, pp. 25-35.

5.1.48 Guedes Soares, C., Garbatov, Y., Zayed, A. and Wang, G. (2005), "Non-linear Corrosion Model for Immersed Steel Plates Accounting for Environmental Factors", *Transactions of SNAME*, Vol.113, pp. 306-329.

5.1.49 Antão, P. and Guedes Soares, C. (2006), "Fault-Tree Models of Accident Scenarios of RoPax Vessels", *International Journal of Automation and Computing*, Vol. 3, Issue 2, pp. 107-116.

5.1.49a Goeb, R., Ramalhoto, M.F. and Pievatolo, A. (2006), "Variable sampling intervals in Shewhart charts based on stochastic failure time modelling", *Quality Technology and Quantitative Management*, Vol. 3, Issue 3, pp. 361-381.

5.1.49b Ramalhoto, M.F. and Akay, A. (2006), "Globalization and Its Impact on Engineering Education and Research", *European Journal of Engineering Education*, Vol. 31, Issue 3.

5.1.49c Ramalhoto, M.F. and Goeb, R. (2006), "An Innovative Strategy to Put Integrated Maintenance, Reliability and Quality Improvement Concepts into Action", *International Journal of Materials & Structural Reliability*, Vol. 4, Issue 2, pp. 207-223.

5.1.50 Sun, H.-H. and Guedes Soares, C. (2006), "Reliability-Based Inspection for Corroded Ship-Type FPSO Hulls", *Journal of Ship Research*, Vol. 50, Issue 2, pp. 171-180.

5.1.51 Teixeira, A.P. and Guedes Soares, C. (2006), "Reliability of Load Bearing Steel Plates Subjected to Localised Heat Loads", *International Journal of Reliability, Quality and Safety Engineering*, Vol. 13, Issue 2, pp. 97-113.

5.1.52 Chen, N-Z. and Guedes Soares, C. (2007), "Reliability Analysis of Ship Hulls in Composite Materials under Sagging Moment" *Journal of Marine Science and Technology*, Vol.12, 263-271.

5.1.53 Chen, N-Z. and Guedes Soares, C. (2007), "Reliability Assessment of Post-buckling Compressive Strength of Laminated Composite Plates and Stiffened Panels under Axial Compression", *International Journal of Solids and Structures*, Vol. 44, pp. 7167-7182.

5.1.54 Sadovský, Z., Guedes Soares, C. and Teixeira, A.P. "Random Field of Initial Deflections and Strength of Thin Plates", *Reliability Engineering and System Safety*, Vol. 92, pp. 1659-1670.

5.1.55 Parunov, J., Senjanoviæb, I. and Guedes Soares, C. (2007), "Hull-Girder Reliability of New Generation Oil Tankers", *Marine Structures*, Vol. 20, pp. 49-70.

5.1.56 Garbatov, Y., Guedes Soares, C. and Wang, G. (2007), "Non-Linear Time Dependent Corrosion Wastage of Deck Plates of Ballast and Cargo Tanks of Tankers", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 129, Issue 1, pp. 48-55.

5.1.57 Chen, N.-Z. and Guedes Soares, C. (2007), "Reliability Assessment for Ultimate Longitudinal Strength of Ship Hulls in Composite Materials", *Probabilistic Engineering Mechanics*, Vol. 22, pp. 330-342.

5.1.58 Caldeira Duarte, J. and Guedes Soares, C. (2007), "Optimization of the Preventive Maintenance Plan of a Series Components System with Weibull Hazard Function", *Reliability: Theory & Applications (Special Issue)*, Vol. 2, Issues 3-4, pp. 33-39.

5.1.59 Mendonça, M.C. and Quaresma Dias, J. (2007), "Postponement' in the Logistical Systems of New Automobiles Marketed in Portugal: The Brands and Quality", *Total Quality Management & Business Excellence*, Vol. 18, Issue 6, pp. 681-696.

5.1.59a Ramalhoto, M.F. and Elsayed, E. (2007), "New and Emerging Trends in Reliability, dedicated to Methodology", *Quality Technology and Quantitative Management*, Vol. 4, Issue 1, Editorial - New and Emerging Trends in Reliability.

5.1.60 Teixeira, A.P., Guedes Soares, C., Netto, T.A. and Estefen, S.F. (2008), "Reliability of Pipelines with Corrosion Defects" *International Journal of Pressure Vessel and Piping*, Vol. 85, pp. 228-237.

5.1.61 Antão, A., Almeida, T., Jacinto, C. and Guedes Soares, C., (2008), "Causes of Occupational Accidents in the Fishing Sector in Portugal", *Safety Science*, Vol. 46, pp. 885-899.

5.1.62 Guedes Soares, C. and Parunov, J. (2008), "Structural Reliability of a Suezmax Oil Tanker Designed According to New Joint Tanker Project Rules", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 130, 021003.

5.1.63 Parunov, J. and Guedes Soares, C. (2008), "Effects of Common Structural Rules on Hull-Girder Reliability of an Aframax Oil Tanker", *Reliability Engineering and System Safety*, Vol. 93, pp. 1317-1327.

5.1.64 Antão, P. and Guedes Soares, C. (2008), "Causal Factors in Accidents of High Speed Craft and Conventional Ocean Going Vessels", *Reliability Engineering and System Safety*, Vol. 93, pp. 1292-1304.

5.1.65 Vanem, E., Antão, P., Østvik, I. and Del Castillo de Comas, F. (2008), "Analysing the risk of LNG carrier operations", *Reliability Engineering and System Safety*, Vol. 93, pp. 1328-1344.

5.1.66 Garbatov, Y. and Guedes Soares, C. (2008), "Corrosion Wastage Modelling of Deteriorated Bulk Carrier Decks", *International Shipbuilding Progress*, Vol. 55, pp. 109-125.

5.1.67 Teixeira, A.P. and Guedes Soares, C. (2008), "Ultimate Strength of Plates with Random Fields of Corrosion", *Structure and Infrastructure Engineering*, Vol. 4, Issue 5, pp. 363-370.

5.1.68 Jacinto, C. and Guedes Soares C. (2008), "The added value of the new ESAW/Eurostat variables in accident analysis in the Mining and Quarrying Industry", *Journal of Safety Research*, Vol. 39, pp. 631-644.

5.1.69 Teixeira, A.P. and Guedes Soares, C. (2008), "Simulation of Inspections on Ship Plates with Random Corrosion Patterns", *Journal of Ship Production*, Vol. 24, Issue 3, pp. 168-175.

5.1.70 Guedes Soares, C. (2008), "Public risks and critical infrastructures" (in Portuguese), *Planeamento Civil de Emergência*, Issue 20, pp. 18-24.

5.1.71 Guedes Soares, C., Garbatov, Y., Zayed, A. and Wang, G. (2008), "Corrosion Wastage Model for the Inside of Ship Crude Oil Tanks", *Corrosion Science*, Vol. 50, Issue 11, pp. 3095-3106.

5.1.72 Garbatov, Y. and Guedes Soares, C. (2009), "Structural maintenance planning based on historical data of corroded deck plates of tankers", *Reliability Engineering and System Safety*, Vol. 94(11), pp. 1806-1817.

5.1.73 Jacinto, C., Canoa, M. and Guedes Soares C. (2009), "Workplace and organisational factors in accident analysis within the Food Industry", *Safety Science*, Vol. 47, Issue 5, pp. 626-635.

5.1.74 Luís, R.M., Teixeira, A.P. and Guedes Soares, C. (2009), "Longitudinal strength reliability of a tanker hull accidentally grounded", *Structural Safety*, Vol. 31, Issue 3, pp. 224-233.

5.1.75 Teixeira, A.P. and Guedes Soares, C. (2009), "Reliability analysis of a tanker subjected to combined sea states", *Probabilistic Engineering Mechanics*, Vol. 24, Issue 4, pp. 493-503.

5.1.76 Guedes Soares, C., Garbatov, Y., Zayed, A. and Wang, G. (2009), "Influence of Environmental Factors on Corrosion of Ship Structures in Marine Atmosphere", *Corrosion Science*, Vol. 51, pp. 2014-2026.

5.1.77 Santos, T. and Guedes Soares, C. (2009), "Numerical Assessment of Factors Affecting the Survivability of Damaged Ro-Ro Ships in Waves", *Ocean Engineering*, Vol. 36, pp. 797-809.

5.1.78 Parunov, J., Corak, M. and Guedes Soares, C. (2009), "Hull-Girder Reliability of a Chemical Tanker", *Marine Technology*, Vol. 46, Issue 4, pp. 192-199.

5.1.79 Quaresma Dias, J., Calado, J.M.F., Luís Osório, A. and Morgado L.F. (2009), "RFID together with multi-agent systems to control global value chains", *Annual Reviews in Control*, Vol. 33, Issue 2, pp. 185-195.

5.1.80 Hussein, A.W. and Guedes Soares C. (2009), "Reliability and Residual Strength of Double Hull Tankers Designed According to the new IACS Common Structural Rules ", *Ocean Engineering*, Vol. 36, pp. 1446-1459.

5.1.81 Quaresma Dias, J., Azevedo, S.G., Ferreira, J. and Palma, S.F. (2009), "A comparative benchmarking analysis of main Iberian container terminals: a DEA approach", *International Journal of Shipping and Transport Logistics*, Vol. 1, Issues 3, pp. 260-275.

5.1.82 Quaresma Dias, J., Calado, J.M.F. and Mendonça, M.C. (2010), "The Role of European «ro-ro» Port Terminals in the Automotive Supply Chain Management", *Journal of Transport Geography*, Vol. 18, Issue 1, pp. 116-124.

5.1.83 Jacinto, C. and Silva, C. (2010), "A semi-quantitative assessment of occupational risks using bow-tie representation", *Safety Science*, Vol. 48, pp. 973-979.

5.1.84 Parunov, J., Senjanović, I. and Guedes Soares, C. (2010), "Case Studies of Structural Reliability of Oil Tankers", *Journal Croatian Academy of Sciences*, Vol. 506, Issue 14, pp. 59-79.

5.1.85 Antão, P. and Guedes Soares, C. (2010), "Analysis of the influence of waves on the occurrence of accidents in the Portuguese coast using Bayesian Belief Networks", *Journal of KONbiN 1*, Vol. 13, pp. 105-116.

5.1.86 Teixeira, A.P., Zayed, A. and Guedes Soares, C. (2010), "Reliability of pipelines with non-uniform corrosion", *Journal of Ocean and Ship Technology*, Vol. 1(1), pp.12-30.

5.1.87 Guedes Soares, C., Garbatov, Y. and Zayed, A. (2011), "Effect of environmental factors on steel plate corrosion under marine immersion conditions", *Corrosion Engineering Science and Technology*, Vol 46, Nº. 4, pp. 524-541.

5.1.88 Sadovský, Z. and Guedes Soares, C. (2011), "Artificial neural network model of the strength of thin rectangular plates with weld induced initial imperfections", *Reliability Engineering and System Safety*, Vol. 96(6), pp. 713-717

5.1.89 Carvalho, I.S., Antão, P. and Guedes Soares, C. (2011), "Modelling of environmental impacts of ship dismantling", *Ships and Offshore Structures*, Vol. 6, Nº. 1-2, pp.161-174.

5.1.90 Jacinto, C., Guedes Soares, C., Fialho, T., Antao, P., Gouveia, M. and Silva, S.A. (2011), "An overview of occupational accidents notification systems within the enlarged EU-27", *WORK: A Journal of Prevention, Assessment, and Rehabilitation*, Vol. 39(4), pp. 369-378.

5.1.91 Gaspar, B., Teixeira, A.P., Guedes Soares, C. and Wang, G. (2011), "Assessment of IACS-CSR Implicit Safety Levels for Buckling Strength of Stiffened Panels for Double Hull Tankers", *Marine Structures*, Vol. 24, Issue 4, pp. 478–502.

5.1.92 Jacinto, C., Guedes Soares. C., Fialho, T. and Silva, S.A. (2011), "The Recording, Investigation and Analysis of Accidents at Work (RIAAT) process", *Policy and Practice in Health and Safety*, Vol. 9, Issue 1, pp. 57-77(21).

5.1.93 Mendes, P. and Água, P. B. (2011), "Is it opportune to Develop an Industry of Naval Safety and Defense Systems in Portugal?", (in Portuguese), *Proelium - Revista Cientifica Da Academia Militar*, Vol. VII (1), pp. 297-317.

5.1.94 Garbatov, Y. and Guedes Soares, C. (2011), "Fatigue Reliability Assessment of Welded Joints of Very Fast Ferry Accounting for Vehicle Loads", *Int J Maritime Engineering (RINA Transactions Part A)*, Vol. 153(Part A), pp. A231-A241.

5.1.95 Silva, J.F. and Jacinto C. (2012), "Finding occupational accident patterns in the extractive industry using a systematic data mining approach", *Reliability Engineering and System Safety*, Vol. 108, pp. 108-122.

5.1.96 Feng, G.Q., Garbatov, Y. and Guedes Soares, C. (2012), "Probabilistic Model of the Growth of Correlated Cracks in a Stiffened Panel", *Engineering Fracture Mechanics*, Vol. 84, pp. 83-95.

5.1.97 Huang, W., Wang, T-J. Garbatov, Y. and Guedes Soares, C. (2012), "Fatigue reliability assessment of riveted lap joint of aircraft structures", *International Journal of Fatigue*, Vol. 43, pp. 54-61.

5.1.98 Feng, G.Q., Garbatov, Y. and Guedes Soares, C. (2012), "Fatigue Reliability of a Stiffened Panel Subjected to Correlated Crack Growth", *Structural Safety*, Vol. 36-37, pp. 39-46.

5.1.99 Quaresma Dias, J., Azevedo, S.G., Ferreira, J.M. and Palma, S.F. (2012), "Seaport performance comparison using data envelopment analysis: the case of the Iberian container terminals", *Int Journal Business Performance Management*, Vol. 13(3-4), pp. 426-449.

5.1.100 Gaspar, B., Naess, A., Leira, B.J. and Guedes Soares, C. (2012), "System Reliability Analysis of a Stiffened Panel under Combined Uniaxial Compression and Lateral Pressure Loads", *Structural Safety*, Vol. 39, pp. 30-43.

5.1.101 Prestileo A., Rizzuto, E., Teixeira, A.P. and Guedes Soares, C. (2013), "Bottom damage scenarios for the hull girder structural assessment", *Marine Structures*, Vol. 33, pp. 33-55.

5.1.102 Gaspar, B. and Guedes Soares, C. (2013), "Hull Girder Reliability using a Monte Carlo Based Simulation Method", *Probabilistic Engineering Mechanics*, Vol. 31, pp. 65-75.

5.1.103 Cagno, E., Micheli, G.J.L., Masi D. and Jacinto C. (2013), "Economic evaluation of OSH and its way to SMEs: A constructive review", *Safety Science*, Vol. 53, pp. 134-152.

5.1.104 Zayed, A., Garbatov, Y. and Guedes Soares, C. (2013), "Reliabiliy of Ship Hulls Subjected to Corrosion and Maintenance", *Structural Safety*, Vol. 43, pp. 1-11.

5.1.105 Zayed, A., Garbatov, Y. and Guedes Soares, C. (2013), "Time variant reliability assessment of ship structures based on fast integration techniques", *Probabilistic Engineerng Mechanics*, Vol. 32, pp. 93-102.

5.1.106 Teixeira, A.P., Ivanov, L. and Guedes Soares, C. (2013), "Assessment of characteristic values of the ultimate strength of corroded steel plates with initial imperfections", *Engineering Structures*, Vol. 56, pp. 517-527.

5.1.107 Huang, W., Garbatov, Y. and Guedes Soares, C. (2013), "Fatigue Reliability Assessment of a Complex Welded Structure Subjected to Multiple Cracks", *Engineering Structures*, Vol. 56, pp. 868-879.

5.1.108 Silveira, P.A.M., Teixeira, A.P. and Guedes Soares, C. (2013), "Use of AIS Data to Characterise Marine Traffic Patterns and Ship Collision Risk off the Coast of Portugal", *Journal of Navigation*, Vol. 66, pp. 879-898.

5.1.109 Son, K.S., Yang, H.S. and Guedes Soares, C. (2013), "Accidents of foreign workers at construction sites in Korea", *Journal of Asian Architecture and Building Engineering*, Vol. 12(2), pp. 197-203.

5.1.110 Feng, G.Q., Garbatov, Y. and Guedes Soares, C. (2013), "Fatigue reliability of deck structures subjected to correlated crack growth", *Journal of Marine Science and Application*, Vol. 12, pp. 413-421.

5.1.111 Huang, W., Wang, T-J., Garbatov, Y. and Guedes Soares, C. (2013), "DFR Based Fatigue Reliability Assessment of Riveted Lap Joint Accounting for Correlations, *International Journal of Fatigue*, Vol. 47, pp. 106-114.

5.1.112 Teixeira, A. P., Guedes Soares, C. and Wang, G. (2013), "Probabilistic modelling of the ultimate strength of ship plates with non-uniform corrosion", *Journal of Marine Science and Technology*, Vol. 18, pp. 115-132.

5.1.113 Silva, J.E., Garbatov, Y. and Guedes Soares, C. (2013), "Ultimate strength assessment of rectangular steel plates subjected to a random non-uniform corrosion degradation", *Engineering Structures*, Vol. 52, pp. 295-305.

5.1.114 Silva, J.E., Garbatov, Y. and Guedes Soares, C. (2014), "Reliability Assessment of a Steel Plate Subjected to Distributed and Localized Corrosion Wastage", *Engineering Structures*, Vol. 59, pp. 13-20.

5.1.115 Marques, P.H., Jesus, V., Olea, S.A., Vairinhos, V. and Jacinto, C. (2014), "The effect of alcohol and drug testing at the workplace on individual0s occupational accident risk", *Safety Science*, Vol. 68, pp. 108-120.

5.1.116 Huang, W., Garbatov, Y. and Guedes Soares, C. (2014), "Fatigue reliability of a web frame subjected to random non-uniform corrosion wastage", *Structural Safety*, Vol. 48, pp. 51-62.

5.1.117 Gaspar, B., Naess, A., Leira, B.J. and Guedes Soares, C. (2014), "System reliability analysis by Monte Carlo based method and finite element structural models", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 136, 031603.

5.1.118 Shi, X., Teixeira, A.P., Zhang, J. and Guedes Soares, C. (2014), "Structural reliability analysis based on probabilistic response modelling using the Maximum Entropy Method", *Engineering Structures*, Vol. 70, pp. 106-116.

5.1.119 Simões, A. Ferreira, A.M., Salvador, R. and Guedes Soares, C. (2014), "Qualitative and quantitative analysis of the Cluster of the sea in the Portuguese ZEE (in Portuguese)", *Maria Scientia*, Vol. 7, pp. 55-75.

5.1.120 Gaspar, B., Teixeira, A.P. and Guedes Soares, C. (2014), "Assessment of the Efficiency of Kriging Surrogate Models for Structural Reliability Analysis", *Probabilistic Engineering Mechanics*, Vol. 37, pp. 24-34.

5.1.121 Gaspar, J.F., Fontul, M., Henriques, E. and Silva, A. (2014), "User satisfaction modeling framework for automotive audio interfaces", *International Journal of Industrial Ergonomics*, Vol. 44, pp. 662-674.

5.1.122 Silva, C.A. and Guedes Soares, C. (2014), "Sizing a fleet of containerships for a given market", *PROMET - Traffic & Transportation*, Vol. 26(4), pp. 333-344.

5.1.123 Huang, W., Garbatov, Y. and Guedes Soares, C. (2014), "Fatigue reliability assessment of correlated welded web-frame joints", *Journal of Marine Science and Application*, Vol. 13, pp. 23-31.

5.1.124 Chojaczyk, A.A., Teixeira, A.P., Neves, L.C., Cardoso, J.B. and Guedes Soares, C. (2015), "Review and application of Artificial Neural Networks models in reliability analysis of steel structures", *Structural Safety*, Vol. 52, pp. 78-89.

5.1.125 Sobral, J. and Ferreira, L. (2015), "Establishment of optimal physical assets inspection frequency based on risk principles", *Maintenance and Reliability*, Vol. 17(2), pp. 243-249.

5.1.126 Gaspar, B., Bucher, C. and Guedes Soares, C. (2015), "Reliability Analysis of Plate Elements under Uniaxial Compression using an Adaptive Response Surface Approach", *Ships and Offshore Structures*, Vol. 10(2), pp. 145-161.

5.1.127 Shi, X., Teixeira, A.P., Zhang, J. and Guedes Soares, C. (2015), "Kriging response surface reliability analysis of a ship stiffened plate with initial imperfections", *Structure and Infrastructure Engineering*, Vol. 11(11), pp. 1450-1465.

5.1.128 Corak, M., Parunov, J. and Guedes Soares, C. (2015), "Probabilistic load combination factors of wave and whipping bending moments", *Journal of Ship Research*, Vol. 59(1), pp. 11-30.

5.1.129 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2015), "Evaluation of near-collisions in the Tagus River Estuary using a marine traffic simulation model", *Journal of the Maritime University of Szczecin*, Vol. 43 (115), pp. 68-78.

5.1.130 Santos, F.P., Teixeira, A.P. and Guedes Soares, C. (2015), "Modelling and simulation of the operation and maintenance of offshore wind turbines", *Journal of Risk and Reliability*, Vol. 229(5), pp. 385-393.

5.1.131 Feng, G.Q., Wang, D.S., Garbatov, Y. and Guedes Soares, C. (2015), "Reliability analysis based on a direct ship hull strength assessment", *J Marine Science and Applications*, Vol. 14, pp. 389-398.

5.1.132 Ramalhoto, M.F. (2015), "In Memoriam of George Box and a View of Future Directions", *Quality Technology and Quantitative Management*, Vol. 12(1), pp. 105-111.

5.1.133 Xu, M.C., Teixeira, A.P. and Guedes Soares, C. (2015), "Reliability assessment of a tanker using the model correction factor method based on the IACS-CSR requirement for hull girder ultimate strength", *Probabilistic Engineering Mechanics*, Vol. 42, pp. 42-53.

5.1.134 Rodrigues, J.M., Teixeira, A.P. and Guedes Soares, C. (2015), "Probabilistic analysis of the hull-girder still water loads on a shuttle tanker in full load condition, for parametrically distributed collision damage spaces", *Marine Structures*, Vol. 44, pp. 101-124.

5.1.135 Silva, C.A., Guedes Soares, C. and Signoret, J. (2015), "Intermodal terminal cargo handling simulation using petri nets with predicates", *Journal of Engineering for the Maritime Environment*, Vol. 229(4), pp. 323-339.

5.1.136 Wu, B., Wang, Y., Zhang, J.F., Savan, E.E. and Yan, X.P. (2015), "Effectiveness of maritime safety control in different navigation zones using a spatial sequential DEA model: Yangtze River case", *Accident Analysis and Prevention*, Vol. 81, pp. 232-242.

5.1.137 Teixeira, A.P., Guia, J. and Guedes Soares, C. (2016), "Effect of IMO's environmental criterion on the optimum hull girder safety level", *Transactions of the Society of Naval Architects and Marine Engineers (SNAME) of 2015,* Vol. 123, pp. 196-206.

5.1.138 Garbatov, Y. (2016), "Fatigue Strength Asessment of Ship Structures accounting for a coating life and corrosion degradation", *International Journal of Structural Integrity*, Vol. 7(2), pp. 305-322.

5.1.139 Graziano, A., Teixeira, A.P. and Guedes Soares, C. (2016), "Classification of human errors in grounding and collision accidents using the TRACEr taxonomy", *Safety Science*, Vol. 86, pp. 245-257.

5.1.140 Castro-Santos, L., Martins, E. and Guedes Soares, C. (2016), "Methodology to calculate the Levelized Cost of Energy (LCOE) of a floating offshore renewable energy farm", *Energies*, Vol. 9, pp. 324-351.

5.1.141 Wu, B., Yan, X.P., Wang, Y. and Guedes Soares, C. (2016), "Selection of Maritime Safety Control Options for NUC ship using a Hybrid Group Decision-Making Approach", *Safety Science*, Vol. 88, pp. 108-122.

5.1.142 Gaspar, B., Teixeira, A.P. and Guedes Soares, C. (2016), "Effect of the nonlinear vertical wave-induced bending moments on the ship hull girder reliability", *Ocean Engineering*, Vol. 119, pp. 193-207.

5.1.143 Salvador, R., Simoes, A. and Guedes Soares, C. (2016), "The Economic Features, Internal Structure and Strategy of the Portuguese Maritime Cluster", *Ocean and Coastal Management*, Vol. 129, pp. 25-35.

5.1.144 Gaspar, J.F., Fontul, M., Henriques, E., Relógio Ribeiro, A., Silva, A. and Valverde, N. (2016), "Psychoacoustics of in-car switch buttons: From feelings to engineering parameters", *Applied Acoustics*, Vol. 110, pp. 280-296.

5.1.145 Zhang, J.F., Teixeira, A.P., Guedes Soares, C., Yan, X. and Liu, K. (2016), "Maritime transportation risk assessment of Tianjin Port with Bayesian Belief Networks", *Risk Analysis*, Vol. 36(6), pp. 1171-1187.

5.1.146 Vettor, R. and Guedes Soares, C. (2106), "Development of a ship weather routing system", *Ocean Engineering*, Vol. 123, pp. 1-14.

5.1.147 Shi, X., Teixeira, A.P., Zhang, J. and Guedes Soares, C. (2016), "Reliability analysis of a ship hull structure under combined loads including slamming loading", *Ship and Offshore Structures*, Vol. 11(3), pp.300-315.

5.1.148 Castro-Santos, L., Martins, E. and Guedes Soares, C. (2016), "Cost assessment methodology for combined wind and wave floating offshore renewable energy systems", *Renewable Energy*, Vol. 97, pp. 866-880.

5.1.149 Ramalhoto, M. F. (2016), "Foreword of the Special Issue "A Tribute to George Box Statistical Methodologies and Applications", *Quality Technology and Quantitative Management*, Vol. 13(2), pp. 221–228.

5.1.150 Sotiralis, P., Ventikos, N.P., Hamann, R., Golyshev, P. and Teixeira, A.P. (2016), "Incorporation of human factors into ship collision risk models focusing on human centred design aspects", *Reliability Engineering and System Safety*, Vol. 156, pp. 210-227.

5.1.151 Mendes, J., Carreira, A.M.P., Aleluia, M. and Mendes, J.P. (2016), "Formulating strategic problems with Systems Modeling Language", *Journal of Enterprise Transformation*, Vol. 6(1), pp. 23-38.

5.1.152 Garbatov, Y. and Guedes Soares, C. (2016), "Reliability of deteriorated marine structures based on measured data", *International Journal of Maritime Engineering*, Vol.158, pp. A-281 - A-288.

5.1.153 Jacinto, C., Santos, F.P., Guedes Soares, C. and Silva, S.A. (2016), "Assessing the coding reliability of work accidents statistical data: How Coders Make a Difference", *Journal of Safety Research*, Vol. 59, pp: 9-21.

5.1.154 Valadas Monteiro, P. (2016), "Fisheries and climate change: inevitability or prophylaxis? Contributing to a necessary debate", *Croatian Journal of Fisheries*, Vol. 74, pp. 115-135.

5.1.155 Valadas Monteiro, P. (2016), "The Role of knowledge-intensive service activities on inducing innovation in co-opetition strategies: lessons from the maritime cluster of the Algarve region", *International Journal of Management and Enterprise Development*, Vol. 15(1), pp. 78-95.

5.1.156 Santos, A.M.P., Mendes, J.P. and Guedes Soares, C. (2016), "A dynamic model for marginal cost pricing of port infrastructures", *Maritime Policy and Management*, Vol. 43(7), pp. 812-829.

5.1.157 Sobral, J. and Ferreira, L. (2016), "Maintenance of Fire Sprinkler Systems based on the Dynamic Assessment of its Condition", *Process Safety Progress*, Vol. 35(1), pp. 84-91.

5.1.158 Gonçalves, P., Sobral, J. and Ferreira, L. (2016), "Reliability database for unmanned aerial vehicles based on morphological analysis", *The Aeronautical Journal*, Vol. 120(1230), pp. 1262-1274.

5.1.159 Sobral, J. and Ferreira, L. A. (2016), "Availability of fire pumping systems under periodic inspection", *Journal of Building Engineering*, Vol. 8, pp. 85-291.

5.1.159a Sobral, J. and Ferreira, L. A. (2016), "Maintenance of Fire Sprinkler Systems Based on the Dynamic Assessment of its Condition", *Process Safety Progress*, Vol. 35(1), pp. 84-91.

5.1.160 Zhang, J.F., Teixeira, A.P., Guedes Soares, C. and Yan, X.P. (2017), "Probabilistic modelling of the drifting trajectory of an object under the effect of wind and current for maritime search and rescue", *Ocean Engineering*, Vol. 129, pp. 253-264.

5.1.161 Gaspar, J.F., Fontul, M., Henriques, E. and Silva, A. (2017), "Haptics of in-car radio buttons and its relationship with engineering parameters", *International Journal of Industrial Ergonomics*, Vol. 59 pp. 29-45.

5.1.162 Santos, T.A. and Guedes Soares, C. (2017), "Development dynamics of the Portuguese range as a multi-port gateway system", *Journal of Transport Geography*, Vol. 60pp. 178-188.

5.1.163 Zhang, J.F., Santos, T.A., Guedes Soares, C. and Yan, X.P. (2017), "Sequential ship traffic scheduling model for restricted two-way waterway transportation", *Journal of Engineering for the Maritime Environment (Part M)*, Vol. 231(1), pp. 86-97.

5.1.164 Gaspar, B., Teixeira, A.P. and Guedes Soares, C. (2017), "Adaptive surrogate model with active refinement combining Kriging and a trust region method", *Reliability Engineering and System Safety*, Vol. 165, pp. 277–291.

5.1.165 Garbatov, Y. and Guedes Soares, C. (2017), "Fatigue Reliability of Dented Pipeline based on Limited Experimental Data", *International Journal of Press Vessels Piping*, Vol. 155, pp. 15-26.

5.1.166 Silva, S.A., Oliveira, M.J., Carvalho, H., Jacinto, C., Fialho, T. and Guedes Soares, C. (2017), "Organizational Practices for learning with work accidents throughout their information cycle", *Safety Science*, Vol. 99, pp. 102-114.

5.1.167 Santos, T. A. and Guedes Soares, C. (2017), "Methodology for ro-ro ship and fleet sizing with application to short sea shipping", *Maritime Policy and Management*, Vol. 44(7), pp. 859-881.

5.1.168 Wu, B., Yan, X.P., Wang, Y. and Guedes Soares, C. (2017), "An evidential reasoning-based CREAM to human reliability analysis in maritime accident process", *Risk Analysis: An International Journal*, Vol. 37(10), pp. 1936-1957.

5.1.169 Castro-Santos, L., Martins, E. and Guedes Soares, C. (2017), "Economic comparison of technological alternatives to harness offshore wind and wave energies", *Energy*, Vol. 140, pp. 1121-1130.

5.1.170 Wu, B., Yan, X.P., Wang, Y., Zhang, D. and Guedes Soares, C. (2017), "Three-Stage Decision-Making Model under Restricted Conditions for Emergency Response to Ships Not under Control", *Risk Analysis: An International Journal*, Vol. 37(12), pp. 2455-2474.

5.1.171 Beckert, J., Mendes, J.P., Alves, F. and Neuparth, N. (2017), "Systemic Approach Towards Understanding Exercise Tolerance: The Case for a Mathematical Model Application (in Portuguese)", *Gazeta Medica*, Vol. 2(4), pp. 71-77.

5.1.172 Gonçalves, P., Sobral, J. and Ferreira, L.A. (2017), "Unmanned aerial vehicle safety assessment modelling through petri Nets", *Reliability Engineering and System Safety*, Vol. 167, pp. 383-393.

5.1.173 Sobral, J. (2017), "Fire Safety Systems in Buildings-Problems and Concerns beyond the Project", *MOJ Civil Engineering*, Vol. 2(5), pp. 00049-00050.

5.1.174 Santos, J. and Sobral, J. (2017), "Optimisation of maintenance based on a dynamics simulation model (in Portuguese)", *Manutenção (APMI - Associacao Portuguesa De Manutencao Industrial)*, Vol. 133/134, pp. 8-10.

5.1.175 Sobral, J. (2017), "The impact of innovation in maintenance programmes on medical equipment and devices (in Portuguese)", *Tecnohospital (Revista de Engenharia e Gestão da Saúde)*, Vol. 80, pp. 14-17.

5.1.176 Valadas Monteiro, P., Salvador, R. and Guedes Soares, C. (2017), "A micro-cluster approach applied to the case of the nautical tourism sector of the Algarve region (Portugal)", *Tourism in Marine Environments*, Vol. 12(2), pp. 105-124.

5.1.177 Santos, T.A. and Guedes Soares, C. (2017), "Modeling transportation demand in short sea shipping", *Maritime Economics and Logistics*, Vol. 19(4), pp. 695-722.

5.1.178 Santos, A.M.P., Salvador, R. and Guedes Soares, C. (2018), "A dynamic view of the socioeconomic significance of ports", *Maritime Economics and Logistics*, Vol. 20, pp. 169-189.

5.1.179 Dong, Y., Teixeira, A.P. and Guedes Soares, C. (2018), "Time-variant fatigue reliability assessment of welded joints based on the PHI2 and response surface methods", *Reliability Engineering and System Safety*, Vo. 177, pp. 120-130.

5.1.180 Santos, A.M.P., Salvador, R., Dias, J.C.Q. and Guedes Soares, C. (2018), "Assessment of port economic impacts on regional economy with a case study on the Port of Lisbon", *Maritime Policy and Management*, Vol. 45(5), pp. 684-698.

5.1.181 Zayed, A., Garbatov, Y. and Guedes Soares, C. (2018), "Corrosion degradation of ship hull steel plates accounting for local environmental conditions", *Ocean Engineering*, Vol. 163, pp. 299–306.

5.1.182 Santos, F.P., Teixeira, A.P. and Guedes Soares, C. (2018), "Maintenance planning of an offshore wind turbine using stochastic petri nets with predicates", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 140, 021904.

5.1.183 Wu, B., Zong, L.K., Yan, X.P. and Guedes Soares, C. (2018), "Incorporating evidential reasoning and TOPSIS into group decision-making under uncertainty for handling ships without command", *Ocean Engineering*, Vol. 164, pp. 590-603.

5.1.184 Guia, J., Teixeira, A.P. and Guedes Soares, C. (2018), "Probabilistic modelling of the hull girder target safety level of tankers", *Marine Structures*, Vol. 61, pp. 119-141.

5.1.185 Garbatov, Y., Sisci, F, and Ventura, M. (2018), "Risk-based framework for ship and structural design accounting for maintenance planning", *Ocean Engineering*, Vol. 166, pp. 12–25.

5.1.186 Zhang, J.F., Teixeira, A.P., Guedes Soares, C. e Yan, X. (2018), "Quantitative assessment of collision risk influence factors in the Tianjin port", *Safety Science*, Vol. 110, pp. 363-371.

5.1.187 Yazdi, M. and Zarei, E. (2018), "Uncertainty Handling in the Safety Risk Analysis: An Integrated Approach Based on Fuzzy Fault Tree Analysis", *J Fail. Anal. and Preven.*, Vo. 18, pp. 392–404.

5.1.188 Kabir, S., Yazdi, M., Aizpurua, J.I. and Papadopoulos, Y. (2018), "Uncertainty-Aware Dynamic Reliability Analysis Framework for Complex Systems", *IEEE Access – Multidisciplinary*, Vol. 6, pp. 29499-29515.

5.1.189 Yazdi, M. (2018), "Risk assessment based on novel intuitionistic fuzzy-hybrid-modified TOPSIS approach", *Safety Science*, Vol. 110, pp. 438-448.

5.1.190 Corak, M., Parunov, J. and Guedes Soares, C. (2018), "Structural reliability analysis of container ships under combined wave and whipping loads", *Journal of Ship Research*, Vol. 62(3), pp. 115-133.

5.1.191 Castro-Santos, L., Silva, D., Bento, A.R., Salvacao, N. and Guedes Soares, C. (2018), "Economic feasibility of wave energy farms in Portugal", *Energies*, Vol. 11(11), 3149.

5.1.192 Sobral, J. and Guedes Soares, C. (2019), "Assessment of the adequacy of safety barriers to hazards", *Safety Science*, Vol. 114, pp. 40-48.

5.1.193 Palência, O.G., Teixeira, A.P. and Guedes Soares, C. (2019), "Safety of pipelines subjected to deterioration processes modelled through Dynamic Bayesian Networks", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 141, 011602.

5.1.194 Kang, J.C., Sun, L.P. and Guedes Soares, C. (2019), "Fault Tree Analysis of Floating Offshore Wind Turbines", *Renewable Energy*, Vol. 133, pp. 1455-1467.

5.1.195 Gaspar, J.F., Fontul, M., Henriques, E. and Silva, A. (2019), "Push button design requirements and relations to button architecture elements", *International Journal of Industrial Ergonomics*, Vol. 70, pp. 92-106.

5.1.196 Teixeira, A.P., Palencia, O.G. and Guedes Soares, C. (2019), "Reliability analysis of pipelines with local corrosion defects under external pressure", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 141, 051601.

5.1.197 Santos, T.A. and Guedes Soares, C. (2019), "Container terminal potential hinterland delimitation in a multi-port system subject to a regionalization process", *Journal of Transport Geography*, Vol. 75, pp. 132-146.

5.1.198 Yazdi, M., Hafezi, P. and Abbassi, R. (2019), "A methodology for enhancing the reliability of expert system applications in probabilistic risk assessment", *Journal of Loss Prevention in the Process Industries*, Vol. 58, pp. 51-59.

5.1.199 Yazdi, M., Nedjati, A. and Abbassi, R. (2019), "Fuzzy dynamic risk-based maintenance optimization for offshore process facilities", *Journal of Loss Prevention in the Process Industries*, Vol. 57, pp. 194-207.

5.1.200 Silva, L.M.R., Teixeira, A.P. and Guedes Soares, C. (2019), "A methodology to quantify the risk of subsea pipeline systems at the oilfield development selection phase", *Ocean Engineering*, Vol. 179, pp. 213-225.

5.1.201 Zarei, E., Yazdi, M., Abbassi, R. and Khan, F. (2019), "A hybrid model for human factor analysis in process accidents: FBN-HFACS", *Journal of Loss Prevention in the Process Industries*, Vol. 57, pp. 142-155.

5.1.202 Santos, F.P., Teixeira, A.P., and Guedes Soares, C. (2019), "Modelling, simulation and optimization of maintenance cost aspects on multi-unit systems by stochastic Petri nets with predicates", SIMULATION: Transactions of the Society for Modeling and Simulation International", Vol. 95(5), pp. 461-478.

5.1.203 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2019), "Reliability prediction of an offshore wind turbine gearbox", *Renewable Energy*, Vol. 141, pp. 693-706.

5.1.204 Kang, J.C., Sobral, J. and Guedes Soares, C. (2019), "Review of condition-based maintenance strategies for offshore wind energy", *Journal of Marine Science and Application*, Vol. 18(1), pp. 1-16.

5.1.205 Wang, L., Liu, Q., Dong, Sh. and Guedes Soares, C. (2019), "Effectiveness assessment of ship navigation safety countermeasures using fuzzy cognitive maps", *Safety Science*, Vol. 117, pp. 352-364.

5.1.206 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2019), "Ship trajectory uncertainty prediction based on a Gaussian Process model", *Ocean Engineering*, Vol. 182, pp. 499-511.

5.1.207 Wu, B., Yip, T.L., Yan, X.P. and Guedes Soares, C. (2019), "Fuzzy logic based approach to define risk factors for ship-bridge collision alert system", *Ocean Engineering*, Vol. 187, 106152.

5.1.208 Kang, J.C., Wang, L., Li, MX., Sun, L.P. and Jin, P. (2019), "Failure Statistics Analysis Based on Bayesian Theory: A Study of FPSO Internal Turret Leakage", *China Ocean Engineering*, Vol. 33(1), pp. 14-25.

5.1.209 Li, MX., Kang, J.C., Sun, LP. and Wang, M. (2019), "Development of optimal maintenance policies for offshore wind turbine gearboxes based on the non-homogeneous continuous-time Markov process", *Journal of Marine Science and Application*, Vol. 18, pp. 93-98.

5.1.210 Ferreira, P. and Canas, J.J. (2019), "Assessing operational impacts of automation using functional resonance analysis method", *Cognition, Technology & Work*, Vol. 21, pp. 535–552.

5.1.211 Antão, P. and Guedes Soares, C. (2019), "Analysis of the influence of human errors on the occurrence of coastal ship accidents in different wave conditions using Bayesian Belief Networks", *Accident Analysis and Prevention*, Vol. 133, 105262.

5.1.212 Gaspar, J.F., Teixeira, A.P., Santos, A.M.P., Guedes Soares, C., Golyshev, P. and Kahler, N. (2019), "Human Centered Design methodology: case study of a ship-mooring winch", *International Journal of Industrial Ergonomics*, Vol. 74, 102861.

5.1.213 Mendes, J.P. and Aleluia, M. (2019), "Aging effects in public policy making", *System Dynamics Review*, Vol. 35, pp. 232–254.

5.1.214 Bhardwaj, U., Teixeira, A.P., Guedes Soares, C., Samdani Azad, Md., Punurai, W. and Asavadorndeja, P. (2019), "Reliability assessment of thick high strength pipelines with corrosion defects", *International Journal of Pressure Vessels and Piping*, Vol. 177, 103982.

5.1.215 Silva, L.M.R. and Guedes Soares, C. (2019), "An integrated optimization of the floating and subsea layouts", *Ocean Engineering*, Vol. 191, 106557.

5.1.216 Silveira, P.A.M., Teixeira, A.P. and Guedes Soares, C. (2019), "AIS based shipping routes using the Dijkstra algorithm", *International Journal on Marine Navigation and Safety of Sea Transportation (TRANSNAV)*, Vol. 13(3), pp. 565-571.

5.1.217 Dinis, D., Barbosa-Povoa, A. and Teixeira, A.P. (2019), "Valuing data in aircraft maintenance through big data analytics: A probabilistic approach for capacity planning using Bayesian networks", *Computers and Industrial Engineering*, Vol. 128, pp. 920-936.

5.1.218 Dinis, D., Barbosa-Povoa, A. and Teixeira, A.P. (2019), "A supporting framework for maintenance capacity planning and scheduling: Development and application in the aircraft MRO industry", *International Journal of Production Economics*, Vol. 218, pp. 1-15.

5.1.219 Gaspar, J.F., Fontul, M., Henriques, E. and Silva, A. (2019), "Push button design requirements and relations to button architecture elements", *International Journal of Industrial Ergonomics*, Vol. 70, pp. 92-106.

5.1.220 Mendes, J.P. and Aleluia, M. (2019), "Aging Effects in Public Policy Making", *System Dynamics Review*, Vol. 35(3), pp. 232-254.

5.1.221 Garbatov, Y., Almany, N. and Tekgoz, M. (2019), "Operational behaviour of an offshore multipurpose support vessel in the Eastern Mediterranean Sea", *International Journal of Maritime Engineering*, Vol. 161(Part A3), pp. A-303 - A-311.

5.1.222 Yazdi, M. (2019), "Introducing a heuristic approach to enhance the reliability of system safety assessment", *Quality and Reliability Engineering International*, Vol. 35, pp. 2612–2638.

5.1.223 Yazdi, M. (2019), "Improving failure mode and effect analysis (FMEA) with consideration of uncertainty handling as an interactive approach", *International Journal on Interactive Design and Manufacturing*, Vol. 13(2), pp. 441–458.

5.1.224 Yazdi, M. (2019), "Acquiring and Sharing Tacit Knowledge in Failure Diagnosis Analysis Using Intuitionistic and Pythagorean Assessments", *Journal of Failure Analysis and Prevention*, Vol. 19, pp. 369–386.

5.1.225 Yazdi, M. (2019), "Footprint of knowledge acquisition improvement in failure diagnosis analysis", *Quality and Reliability Engineering International*, Vol. 35, pp. 405–422.

5.1.226 Yazdi, M. (2019), "A review paper to examine the validity of Bayesian network to build rational consensus in subjective probabilistic failure analysis", *International Journal of System Assurance Engineering and Management*, Vol. Vol. 10(1), pp. 1–18.

5.1.227 Yazdi, M., Kabir, S. and Walker, M. (2019), "Uncertainty handling in fault tree based risk assessment: State of theart and future perspectives", *Process Safety and Environmental Protection*, Vol. 131, pp. 89-104.

5.1.227a Yazdi, M. and Soltanali, H. (2019), "Knowledge acquisition development in failure diagnosis analysis as an interactive approach", *International Journal on Interactive Design and Manufacturing (IJIDeM)*, Vol. 13, pp. 193-210.

5.1.228 Dong, Y., Teixeira, A.P. and Guedes Soares, C. (2020), "Application of adaptive surrogate models in time-variant fatigue reliability assessment of welded joints with surface cracks", *Reliability Engineering and System Safety*, Vol. 195, 106730.

5.1.229 Yazdi, M. (2020), "A perceptual computing-based method to prioritizeintervention actions in the probabilistic risk assessment techniques", *Quality and Reliability Engineering International*, Vol. 36, pp. 187-213.

5.1.230 Zhao, Y.L., Dong, S., Jiang, F.Y. and Guedes Soares, C. (2020), "System reliability analysis of an offshore jacket platform", *Journal of Ocean University China*, Vol. 19(1), pp. 47-59.

5.1.231 Castro-Santos, L., Bento, A.R., Silva, D., Salvação, N. and Guedes Soares, C. (2020), "Economic feasibility of floating offshore wind farms in the north of Spain", *Journal of Marine Science and Engineering*, Vol. 8(1), pp. 58-76.

5.1.232 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2020), "Data mining approach to shipping route characterization and anomaly detection based on AIS data", *Ocean Engineering*, Vol. 198, 106936.

5.1.233 Castro-Santos, L., Bento, A.R. and Guedes Soares, C. (2020), "The economic feasibility of floating offshore wave energy farms in the North of Spain", *Energies*, Vol. 13, 806.

5.1.234 Xu, S., Teixeira, A.P. and Guedes Soares, C. (2020), "Conditional Reliability Analysis of a Semi-Submersible Mooring Line with Random Hydrodynamic Coefficients", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 142, 011606.

5.1.235 Wu, B., Tian, H.B., Yan, X.P. and Guedes Soares, C. (2020), "A probabilistic consequence estimation model for collision accidents in the downstream of Yangtze River using Bayesian Networks", *Journal of Risk and Reliability*, Vol. 234(2), pp. 422–436.

5.1.236 Jiang, F.Y., Dong, S., Zhao, YL. and Guedes Soares, C. (2020), "Experimental and numerical study of submarine pipeline response to hooking loads", *Ocean Engineering*, Vol. 207, 107392.

5.1.237 Castro-Santos, L., Silva, D., Bento, A.R., Salvacao, N. and Guedes Soares, C. (2020), "Economic feasibility of floating offshore wind farms in Portugal", *Ocean Engineering*, Vol. 207, 107393.

5.1.238 Yu, Q., Liu, KH., Teixeira, A.P. and Guedes Soares, C. (2020), "Assessment of the influence of offshore wind farms on ship traffic flow based on AIS data", *Journal of Navigation*, Vol. 73, pp. 131-148.

5.1.239 Yazdi, M., Korhan, O. and Daneshvar, S. (2020), "Application of fuzzy fault tree analysis based on modified fuzzy AHP and fuzzy TOPSIS for fire and explosion in the process industry", *International Journal of Occupational Safety and Ergonomics (JOSE)*, Vol. 26(2), pp. 319-335.

5.1.240 Yang, Zh., Yang, Za. and Teixeira, A.P. (2020), "Comparative analysis of the impact of new inspection regime on port state control inspection", *Transport Policy*, Vol. 92, pp. 65-80.

5.1.241 Yazdi, M., Nedjatib, A., Zarei, E. and Abbassi, R. (2020), "A reliable risk analysis approach using an extension of best-worst method based on democratic-autocratic decision-making style", *Journal of Cleaner Production*, Vol. 256, 120418.

5.1.242 Kabir, S., Geok, T.K., Kumar, M., Yazdi, M. and Hossain, F. (2020), "A Method for Temporal Fault Tree Analysis Using Intuitionistic Fuzzy Set and Expert Elicitation", *IEEE Access*, Vol. 8, pp. 980-996.

5.1.243 Daneshvar, S., Yazdi, M. and Adesina, K.A. (2020), "Fuzzy smart failure modes and effects analysis to improve safety performance of system: Case study of an aircraft landing system", *Quality and Reliability Engineering International*, Vol. 36(3), pp. 890-909.

5.1.244 Yazdi, M. and Kabir, S. (2020), "Fuzzy evidence theory and Bayesian networks for process systems risk analysis", *Human and Ecological Risk Assessment: An International Journal*, Vol. 26(1).

5.1.245 Patriarca, R., Di Gravio, G., Woltjer, R., Costantino, F., Praetoriusc, G., Ferreira, P. and Hollnagel, E. (2020), "Framing the FRAM: A literature review on the functional resonance analysis method", *Safety Science*, Vol. 129, 104827.

5.1.246 Zhang, Yi., Wei, K., Shen, ZH., Bai, X., Lu, XZ. and Guedes Soares, C. (2020), "Economic Impact of Typhoon Induced Wind Disasters to Port Operations: A Case Study of Ports in China", *International Journal of Disaster Risk Reduction*, Vol. 50, 101719.

5.1.247 Dinis, D., Teixeira, A.P. and Guedes Soares, C. (2020), "Probabilistic Approach for Characterising the Static Risk of Ships Using Bayesian Networks", *Reliability Engineering and System Safety*, Vol. 203, 107073.

5.1.248 Dinis, D., Teixeira, A.P. and Barbosa-Povoa, A. (2020), "ForeSim-BI: A predictive analytics decision support tool for capacity planning", *Decision Support Systems*, Vol. 131, 113266.

5.1.249 Huang, Y.C. and Garbatov, Y. (2020), "Multiobjective Reliability-Based Design of Ship Structures Subjected to Fatigue Damage and Compressive Collapse", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 142, 051701.

5.1.250 Kang, J.C., Wang, Zi. and Guedes Soares, C. (2020), "Condition-based maintenance for offshore wind turbines based on support vector machine", *Energies*, Vol. 13, 3518.

5.1.251 Garbatov, Y. (2020), "Risk-based corrosion allowance of oil tankers", *Ocean Engineering*, Vol. 213, 107753.

5.1.252 Steen, R. and Ferreira, P. (2020), "Resilient flood-risk management at the municipal level through the lens of the Functional Resonance Analysis Model", *Reliability Engineering and System Safety*, Vol. 204, 107150.

5.1.253 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2020), "Reliability assessment of a subsea pipe-in-pipe system for major failure modes", *International Journal of Pressure Vessels and Piping*, Vol. 188, 104177.

5.1.254 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2020), "Uncertainty in reliability of thick high strength pipelines with corrosion defects subjected to internal pressure", *International Journal of Pressure Vessels and Piping*, Vol. 188, 104170.

5.1.255 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2020), "Uncertainty quantification of burst pressure models of corroded pipelines", *International Journal of Pressure Vessels and Piping*, Vol. 188, 104208.

5.1.256 Li, H., Guedes Soares, C. and Huang, H.Z. (2020), "Reliability analysis of floating offshore wind turbine using Bayesian Networks", *Ocean Engineering*, Vol. 217, 107827.

5.1.257 Li. H., Teixeira, A.P. and Guedes Soares, C. (2020), "A Two-Stage Failure Mode and Effect Analysis of an Offshore Wind Turbines", *Renewable Energy*, Vol. 162, pp. 1438-1461.

5.1.258 Kang, J. C. and Guedes Soares, C. (2020), "An opportunistic maintenance policy for the offshore wind farms", *Ocean Engineering*, Vol. 216, 108075.

5.1.259 Lotovskyi, E., Teixeira, A.P. and Guedes Soares C. (2020), "Availability analysis of an offshore oil and gas production system subjected to age-based preventive maintenance by Petri Nets", *Maintenance and Reliability (Eksploatacja i Niezawodnoœæ)*, Vol. 22(4), pp. 627-637.

5.1.260 Bellini E., Gaitanidou E., Bekiaris E. and Ferreira P. (2020), "The RESOLUTE project's European Resilience Management Guidelines for Critical Infrastructure: development, operationalisation and testing for the urban transport system", *Environment Systems and Decisions*, Vol. 40, pp. 321-341.

5.1.261 Primorac, B.B., Parunov, J. and Guedes Soares, C. (2020), "Structural reliability analysis of ship hulls accounting for collision or grounding damage", *Journal of Marine Science and Application*, Vol. 19, pp. 717-733.

5.1.261A Adesina, K.A., Nedjati, A. and Yazdi, M. (2020), "A Short communication: Improving marine safety management system by addressing common safety program failures", *Research in Marine Sciences*, Vol. 5(2), pp. 671-680.

5.1.261B Yazdi, M., Nedjatib, A., Zarei, E. and Abbassi, R. (2020), "A novel extension of DEMATEL approach for probabilistic safety analysis in process systems", *Safety Science*, Vol. 121, pp. 191-136.

5.1.261C Golilarz, N.A., Mirmozaffari, M., Gashteroodkhani, T.A., Ali, L., Dolatsara, H.A., Boskabadi, A. and Yazdi, M. (2020), "Optimized Wavelet-Based Satellite Image De-Noising with Multi-Population Differential Evolution-Assisted Harris Hawks Optimization Algorithm", *IEEE ACCESS*, Vol. 8, pp. 133076-133085.

5.1.261d Lotovskyi, E., Teixeira, A.P. and Guedes Soares, C. (2020), "Availability analysis of an offshore oil and gas production system subjected to age-based preventive maintenance by Petri Nets", *Maintenance and Reliability (Eksploatacja i Niezawodnosc)*, Vol. 22(4), pp. 627–637.

5.1.262 Li. H., Diaz, H.M. and Guedes Soares, C. (2021), "A Developed Failure Mode and Effect Analysis for Floating Offshore Wind Turbine Support Structures", *Renewable Energy*, Vol. 164, pp. 133-145.

5.1.263 Dong, Y., Garbatov, Y. and Guedes Soares, C. (2021), "Improved effective notch strain approach for fatigue reliability assessment of load-carrying fillet welded cruciform joints in low and high cycle fatigue", *Marine Structures*, Vol. 75, 102849.

5.1.264 Garbatov, Y. and Georgiev, P. (2021), "Risk-Based Conceptual Ship Design of a Bulk Carrier Accounting for Energy Efficiency Design Index (EEDI)", *International Journal of Maritime Engineering*, Vol. 163(Part A1), pp. A51 - A62.

5.1.265 Dong, Y., Garbatov, Y. and Guedes Soares, C. (2021), "Strain-based fatigue reliability assessment of welded joints in ship structures", *Marine Structures*, Vol. 75, 102878.

5.1.266 Wu, B., Tang, Y., Yan, X.P. and Guedes Soares, C. (2021), "Bayesian Network modelling for safety management of electric vehicles transported in RoPax ships", *Reliability Engineering and System Safety*, Vol. 209, 107466.

5.1.267 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2021), "Spatial correlation analysis of near ship collision hotspots with local maritime traffic characteristics", *Reliability Engineering and System Safety*, Vol. 209, 107463.

5.1.268 Santos, T.A., Martins, P. and Guedes Soares, C. (2021), "Cruise shipping in the Atlantic coast of the Iberian Peninsula", *Maritime Policy and Management*, Vol. 48(1), pp. 129-145.

5.1.269 Yuan, X.L., Zhang, D., Zhang, J.F., Zhang, M.Y. and Guedes Soares, C. (2021), "A novel real-time collision risk awareness method based on velocity obstacle considering uncertainties in ship dynamics", *Ocean Engineering*, Vol. 220, 108436.

5.1.270 Diaz, H.M. and Guedes Soares, C. (2021), "A multi-criteria approach to evaluate floating offshore wind farms siting in the Canary Islands (Spain)", *Energies*, Vol. 14, 865.

5.1.271 Silva, L.M.R. and Guedes Soares, C. (2021), "Oilfield development system optimization under reservoir production uncertainty", *Ocean Engineering*, Vol. 225, 108758.

5.1.272 Santos, T.A., Martins, P. and Guedes Soares, C. (2021), "The impact of container terminal relocation on hinterland geography", *Journal of Transport Geography*, Vol. 92, 103014.

5.1.273 Zhang, J.F., Wan, C.P., He, A., Zhang, D. and Guedes Soares, C. (2021), "A two-stage black-spot identification model for inland waterway transportation", *Reliability Engineering and System Safety*, Vol. 213, 107677.

5.1.274 Guedes Soares, C. (2021), "Forty years of Reliability Engineering", *Reliability Engineering and System* Safety, Vol. 213, 107608.

5.1.275 Li, H., Deng, Z-M., Golilarz, N.A. and Guedes Soares, C. (2021), "Reliability Analysis of the Main Drive System of a CNC Machine Tool Including Early Failures", *Reliability Engineering and System Safety*, Vol. 215, 107846.

5.1.276 Silveira, P.A.M., Teixeira, A.P., Figueira, J.R. and Guedes Soares, C. (2021), "A multicriteria outranking approach for ship collision risk assessment", *Reliability Engineering and System Safety*, Vol. 214, 107789.

5.1.277 Wu, B., Zhang, JH., Yip, T.L. and Guedes Soares, C. (2021), "A quantitative decision-making model for emergency response to oil spill from ships", *Maritime Policy and Management*, Vol. 48(3), pp. 299-315.

5.1.278 Li. H., Diaz, H.M. and Guedes Soares, C. (2021), "A failure analysis of floating offshore wind turbines using AHP-FMEA methodology", *Ocean Engineering*, Vol. 234, 109261.

5.1.279 Garbatov, Y. and Georgiev, P. (2021), "Advances in conceptual ship design accounting for the risk of environmental pollution", *Annual Journal of Technical University of Varna*, Vol. 5(1), pp. 25-41.

5.1.280 Bhardwaj, U., Teixeira, A.P., Guedes Soares, C., Ariffin, A.K. and Singh, S.S. (2021), "Evidence based risk analysis of Fire and Explosion accident scenarios in FPSO", *Reliability Engineering and System Safety*, Vol. 215, 107904.

5.1.281 Cai, M.Y., Zhang, J.F., Zhang, D., Yuan, X.L. and Guedes Soares, C. (2021), "Collision risk analysis on ferry ship in Jiangsu Section of the Yangtze River based on AIS data", *Reliability Engineering and System Safety*, Vol. 215, 107901.

5.1.282 Ramalho, M.M. and Santos, T.A. (2021), "Numerical Modeling of Air Pollutants and Greenhouse Gases Emissions in Intermodal Transport Chains", *Journal of Marine Science and Engineering*, Vol. 9, 679.

5.1.283 Yu, Q., Teixeira, A.P., Liu, K., Rong, H. and Guedes Soares, C. (2021), "An integrated dynamic ship risk model based on Bayesian Networks and Evidential Reasoning", *Reliability Engineering and System Safety*, Vol. 216, 107993.

5.1.284 Zhang, J.F., He, A., Fan, CL., Yan, X.P. and Guedes Soares, C. (2021), "Quantitative analysis on risk influencing factors in the Jiangsu segment of the Yangtze River", *Risk Analysis*, Vol. 41(9), pp. 1560-1578.

5.1.285 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2021), "Burst strength assessment of X100 to X120 ultra-high strength corroded pipes", *Ocean Engineering*, Vol. 241, 110004.

5.1.286 Golilarz, N.A., Gao, H., Pirasteh, S., Yazdi, M., Zhou, JL. and Fu, Y. (2021), "Satellite Multispectral and Hyperspectral Image De-Noising with Enhanced Adaptive Generalized Gaussian Distribution Threshold in the Wavelet Domain", *Remote Sensing*, Vol. 13(1), 101.

5.1.287 Liu, ZH., Wu, ZL., Zheng, ZG., Wang, Xin and Guedes Soares, C. (2021), "Modelling Dynamic Maritime Traffic Complexity with Radial Distribution Functions", *Ocean Engineering*, Vol. 241, 109990.

5.1.288 Yazdi, M., Golilarz, N.A., Nedjati, A. and Adesina, K.A. (2021), "An improved lasso regression model for evaluating the efficiency of intervention actions in a system reliability analysis", *Neural Computing & Applications*, Vol. 33, pp. 7913-7928

5.1.289 Yazdi, M., Golilarz, N.A., Adesina, K.A. and Nedjati, A. (2021), "Probabilistic Risk Analysis of Process Systems Considering Epistemic and Aleatory Uncertainties: A Comparison Study", *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, Vol. 29(2), pp. 181-207.

5.1.290 Yazdi, M., Golilarz, N.A., Nedjati, A. and Adesina, K.A. (2021), "Bayesian decision making of maintenance strategy selection in offshore sectors", *Research in Marine Sciences*, Vol. 6(2), pp. 937-950.

5.1.291 Ramalho, M.M. and Santos, T.A. (2021), "The Impact of the Internalization of External Costs in the Competitiveness of Short Sea Shipping", *Journal of Marine Science and Engineering*, Vol. 9, 959.

5.1.292 Georgiev, P. and Garbatov, Y. (2021), "Multipurpose vessel fleet for short black sea shipping through multimodal transport corridors", Brodogradnja, Vol. 72(4), pp. 79-101.

5.1.293 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2022), "Maritime traffic probabilistic prediction based on ship motion pattern extraction", *Reliability Engineering and System Safety*, Vol. 217, 108061.

5.1.294 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2022), "Bayesian framework for reliability prediction of subsea processing systems accounting for influencing factors uncertainty", *Reliability Engineering and System Safety*, Vol. 218, 108143.

5.1.295 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2022), "Casualty analysis methodology and taxonomy for FPSO accident analysis", *Reliability Engineering and System Safety*, Vol. 218, 108169.

5.1.296 Wu, B., Yip, T.L., Yan, X.P. and Guedes Soares, C. (2022), "Review of techniques and challenges of human and organizational factors analysis in maritime transportation", *Reliability Engineering and System Safety*, Vol. 219, 108249.

5.1.297 Wang, L., Liu, Q., Dong, Sh. and Guedes Soares, C. (2022), "Selection of countermeasure portfolio for shipping safety with consideration of investment risk aversion", *Reliability Engineering and System Safety*, Vol. 219, 108189.

5.1.298 Diaz, H.M., Teixeira, A.P. and Guedes Soares, C. (2022), "Application of Monte Carlo and Fuzzy Analytic Hierarchy Processes for ranking floating wind farm locations", *Ocean Engineering*, Vol. 245, 110453.

5.1.299 Wang, ZK. and Guedes Soares, C. (2022), "A new buckle initiation concept based on the energy barrier of subsea pipelines laid on a sloping seabed", *Marine Structures*, Vol. 82, 103155.

5.1.300 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2022), "Ship collision avoidance behaviour recognition and analysis based on AIS data", *Ocean Engineering*, Vol. 245, 110479.

5.1.301 Santos, T.A., Fonseca, M.A., Martins, P. and Guedes Soares, C. (2022), "Integrating short sea shipping with Trans-European Transport Networks", *Journal of Marine Science and Engineering*, Vol. 10, 218.

5.1.302 Yu, Q., Teixeira, A.P., Liu, K. and Guedes Soares, C. (2022), "Framework and application of multi-criteria ship collision risk assessment", *Ocean Engineering*, Vol. 250, 111006.

5.1.303 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2022), "Uncertainty in collapse strength prediction of sandwich pipelines", *Journal of Offshore Mechanics and Arctic Engineering*, Vol. 144, 041702.

5.1.304 Li. H., Huang, C-G. and Guedes Soares, C. (2022), "Real-Time inspection and opportunistic maintenance strategies for floating offshore wind turbines", *Ocean Engineering*, Vol. 256, 111433.

5.1.305 Silveira, P.A.M., Teixeira, A.P. and Guedes Soares, C. (2022), "A method to extract the Quaternion Ship Domain parameters from AIS data", *Ocean Engineering*, Vol. 257, 111568.

5.1.306 Santos, A.M.P., Fagerholt, K., Laporte, G. and Guedes Soares, C. (2022), "A stochastic optimization approach for the supply vessel planning problem under uncertain demand", *Transportation Research Part B: Methodological*, Vol. 162, pp. 209-228.

5.1.307 Liu, J.J., Zhang, J.F., Yan, X.P. and Guedes Soares, C. (2022), "Multi-ship Collision Avoidance Decision-making and Coordination Mechanism in Mixed Navigation Scenarios", *Ocean Engineering*, Vol. 257, 111666.

5.1.308 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2022), "Failure assessment of corroded ultra-high strength pipelines under combined axial tensile loads and internal pressure", *Ocean Engineering*, Vol. 257, 111438.

5.1.309 Alves, R.L.C. and Santos, T.A. (2022), "Cruise ship itinerary design considering port attractiveness for passengers", *Research in Transportation Business & Management*, Vol. 43, 100815.

5.1.310 Lotovskyi, E., Teixeira, A.P. and Guedes Soares, C. (2022), "Availability analysis of an offshore wind turbine subjected to age-based preventive maintenance by Petri Nets", *Journal of Maritime Science and Engineering*, Vol. 10, 1000.

5.1.311 Li. H. and Guedes Soares, C. (2022), "Assessment of failure rates and reliability of floating offshore wind turbines", *Reliability Engineering and System Safety*, Vol. 228, 108777.

5.1.312 Dong, Y., Garbatov, Y. and Guedes Soares, C. (2022), "Review on uncertainties in fatigue loads and fatigue life of ships and offshore structures", *Ocean Engineering*, Vol. 264, 112514.

5.1.313 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2022), "Probabilistic collapse design and safety assessment of sandwich pipelines", *Journal of Marine Science and Engineering*, Vol. 10, 1435.

5.1.314 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2022), "Probabilistic safety assessment of the burst strength of corroded pipelines of different steel grades with calibrated strength models", *Marine Structures*, Vol. 86, 103310.

5.1.315 Zhang, J.F., Zhang, H., Liu, J.J., Wu, D. and Guedes Soares, C. (2022), "A two-stage path planning algorithm based on Rapid-exploring Random Tree for ships navigating in multi-obstacle water areas considering COLREGs", *Journal of Marine Science and Engineering*, Vol. 10, 1441.

5.1.316 Li. H., Teixeira, A.P. and Guedes Soares, C. (2022), "An Improved Failure Mode and Effect Analysis of Floating Offshore Wind Turbines", *Journal of Marine Science and Engineering*, Vol. 10, 1616.

5.1.317 Karatug, C., Arslanoglu, Y. and Guedes Soares, C. (2022), "Determination of a maintenance strategy for machinery systems of autonomous ships", *Ocean Engineering*, Vol. 266, 113013.

5.1.318 Gao, D., Zhu, Y.S. and Guedes Soares, C. (2022), "Uncertainty modelling and dynamic risk assessment for long-sequence AIS trajectory based on multivariate Gaussian Process", *Reliability Engineering and System Safety*, Vol. 230, 108963.

5.1.319 Santos, T.A., Lopes dos Santos, G., Martins, P. and Guedes Soares, C. (2022), "A methodology for Short-Sea-Shipping service design within intermodal transport chains", *Maritime Economics and Logistics*, Vol. 24, pp. 138-167.

5.1.320 Li. H., Peng, WW., Huang, C-G. and Guedes Soares, C. (2022), "Failure Rate Assessment for Onshore and Floating Offshore Wind Turbines", *Journal of Marine Science and Engineering*, Vol. 10(12), 1965.

5.1.321 Etienne, P., Zunjic, A., Ferreira P., Michez, B. and Szabo, G. (2022), "Inter connections between ergonomics and EU machinery directive - A standpoint of the Federation of European Ergonomics Societies (FEES)", *IETI Transtions on Engineering Research Practice*, Vol. 6(1), pp. 1-14.

5.1.322 Garbatov, Y. and Georgiev, P. (2022), "Air Pollution and Economic Impact from Ships Operating in the Port of Varna", *Atmosphere*, Vol. 13, 1526.

5.1.323 Garbatov, Y., Georgiev, P. and Fuchedzhieva, I. (2022), "Extreme value analysis of NOx air pollution in the winter seaport of Varna", *Atmosphere*, Vol. 13, 1921.

5.1.324 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2022), "Review on artificial intelligence-aided fife extension assessment of offshore wind support structures", *Journal of Marine Science and Application*, Vol. 21, pp. 26-54.

5.1.325 Zuiderwijk D., Steen R. and Ferreira P. (2022), "Learning from operational planning", *International Journal of Business Continuity and Risk Management*, Vol. 12, pp. 1-24.

5.1.326 Frazão, D. and Sobral, J. (2022), "The Impact of Human Error on Medical Procedures", *The International Journal of Risk and Safety in Medicine*, Vol. 33(3), pp. 287-298.

5.1.327 Sobral, J., Santos, P., Pato, M. and Datia, N. (2022), "Monitorization of physical industrial assets with recourse to IIoT solutions (*in Portuguese*)", *Manutenção*, Vol. 154/155, pp. 46-48.

5.1.328 Diaz, H.M., Serna, J., Nieto, J. and Guedes Soares, C. (2022), "Market needs, opportunities and barriers for the floating wind industry", *Journal of Marine Science and Engineering*, Vol. 10, 934.

5.1.329 Bashir, M., Xu, ZF., Wang, J. and Guedes Soares, C. (2022), "Data-driven Damage Quantification of Floating Offshore Wind Turbine Platforms based on Multi-Scale Encoder-Decoder with Self-Attention Mechanism", *Journal of Marine Science and Engineering*, Vol. 10, 1830.

5.2 Papers in Books

5.2.1 Guedes Soares, C. and Moan, T. (1983), "On the Uncertainties Related to the Extreme Hydrodynamic Loading on a Cylindrical Pile", *Reliability Theory and its Application in Structural and Soil Mechanics*, Thoft-Christensen, P. (Ed.), Martinus Nijhoff, The Hague, pp. 351-364.

5.2.2 Guedes Soares, C. (1987), "Effect of Quality Control Programs in the Design and Safety of Ship Structures" *Ship's Project and Onboard Systems*, *Naval Architecture and Marine Engineering in Portugal* (in Portuguese), Guedes Soares, C. (Ed.), Ordem dos Engenheiros, Lisbon, 1987, Vol. 1, pp. 14.1-14.21.

5.2.3 Guedes Soares, C. (1988), "Reliability of Marine Structures", *Reliability Engineering*, Amendola, A. and Saiz de Bustamante, A. (Eds.), Kluwer Acad. Pub., Dordrecht, pp. 513-559.

5.2.4 Guedes Soares, C. (1989), "Probabilistic Methods for the Assessment of Safety in the Rules of Ship Structures", *Marine Safety, Naval Architecture and Marine Engineering in Portugal* (in Portuguese), Guedes Soares, C. (Ed.), 1989, Lisbon, Vol. V, pp. 18.1-18.35.

5.2.5 Guedes Soares, C. (1989), "Basis for the Establishment of Target Safety Levels", *Marine Safety, Naval Architecture and Marine Engineering in Portugal* (in Portuguese), Guedes Soares, C. (Ed.), Lisbon, Vol. V, Issue Z, pp. 18.37-18.63.

5.2.6 Guedes Soares, C. and Brito, V.G. (1989), "Application of Reliability Techniques to Predict System Probability of Failure and Maintenance", *Marine Safety, Naval Architecture and Marine Engineering in Portugal* (in Portuguese), Guedes Soares, C. (Ed.), Lisbon, Vol. V, pp. 22.1-22.41.

5.2.7 Guedes Soares, C. and Araújo, R.N.S. (1989), "Probability of Ship Survival to Flooding", *Marine Safety, Naval Architecture and Marine Engineering in Portugal* (in Portuguese), Guedes Soares, C. (Ed.), Lisbon, Vol. IV, pp. 15.1-15.29.

5.2.8 Guedes Soares, C. (1990), "Uncertainty Modelling in Systems Reliability Analysis", *Systems Reliability Assessment*, Colombo, A.G. e Saiz de Bustamente, A. (Eds.), Kluwer Acad. Pub., Dordrech, pp. 285-303.

5.2.9 Dogliani, M., Cazzulo, R. and Guedes Soares, C. (1991), "Reliability Techniques in Ship Design: Perspectives of Implementation", *Reliability 91*, Mathews, E. (Ed), Elsevier Science, London, pp. 359-375.

5.2.10 Guedes Soares, C. (1996), "Probabilistic Models for the Assessment of Ship Structural Reliability*"*, *Reliability and Optimisation of Structural Systems*, Frangopol, D.M., Corotis, R.B. and Rackwitz, R. (Eds.), Pergamon, pp. 33-48.

5.2.11 Guedes Soares, C. (1997), "Probabilistic Modelling of the Strength of Flat Compression Members", *Probabilistic Methods for Structural Design*, Guedes Soares, C. (Ed.), Kluwer Academic Publishers, pp. 113-140.

5.2.12 Shetty, N. and Guedes Soares, C. (1997), "Fire Reliability of Skeletal and Plated Structures in Offshore Structures", *Advances in Safety and Reliability*, Guedes Soares, C. (Ed), Pergamon, Vol. 2 pp. 1407-1414.

5.2.13 Guedes Soares, C. and Garbatov, Y. (1997), "The Fatigue Reliability of Ship Hulls with Random Limit State", *Advances in Safety and Reliability*, Guedes Soares, C. (Ed.), Pergamon, Vol. 2, pp. 1467-1476.

5.2.14 Guedes Soares, C. (1997), "Quantification of Model Uncertainty", *Probabilistic Methods for Structural Design*, Guedes Soares, C. (Ed.), Kluwer Academic Publishers, pp. 17-38.

5.2.15 Guedes Soares, C., Teixeira, A.P. and Neves, L. (1997), "Probabilistic Modelling of Offshore Pool Fires", *Advances in Safety and Reliability*, Guedes Soares, C. (Ed.), Pergamon, Vol. 2, pp. 781-790.

5.2.16 Ramalhoto, M. F. and Guedes Soares, C. (1997), "Stochastic Process Control and Quality Management", *Advances in Safety and Reliability*, Guedes Soares, C. (Ed.), Pergamon, Vol. 3, pp. 2003-2010.

5.2.17 Ferreira, S.A., Santos, T. and Guedes Soares, C. (1997), "Damaged Stability of Ro-Ro Ships", *Safety, Quality and Environment in the Marine Industries* (in Portuguese), Guedes Soares, C. and Mira Monerris, A. (Eds.), Lisbon, pp. 8.1-8.23

5.2.18 Guedes Soares, C. (1998), "Ship Structural Reliability", *Risk and Reliability in Marine Technology*, Guedes Soares, C. (Ed.), Balkema, pp. 227-244.

5.2.19 Guedes Soares, C. and Garbatov, Y. (1998), "Non-Linear Time Dependent Model of Corrosion for the Reliability Assessment of Maintained Structural Components", *Safety and Reliability*, Lydersen, S., Hansen G.K. and Sandtorv, H.A. (Eds), Norway, Balkema, Vol. II, pp. 929-936.

5.2.20 Teixeira, A. and Guedes Soares, C. (1998), "On the Reliability of Ship Structures in Different Coastal Areas", *Structural Safety and Reliability*, Shiraishi, Shinozuka & Wen (Eds.), A.A. Balkema, Japan, pp. 2073-2076.

5.2.21 Guedes Soares, C., Teixeira, A. and Lopes, J.B. (1998), "Reliability of Plate Elements Subjected to Offshore Pool Fires", *Structural Safety and Reliability*, Shiraishi, Shinozuka & Wen (Eds.), A.A. Balkema, Japan, pp. 2021-2028.

5.2.22 Guedes Soares, C. and Garbatov, Y. (1998), "Reliability of Plate Elements Subjected to Compressive Loads and Accounting for Corrosion and Repair", *Structural Safety and Reliability*, Shiraishi, Shinozuka & Wen (Eds.), A.A. Balkema, Japan, pp. 2013-2020.

5.2.23 Guedes Soares, C. and Garbatov, Y. (1999), "Reliability Based Fatigue Design of Maintaned Welded Joints in the Side Shell of Tankers", *Fatigue Design and Reliability*, G. Marquis and J. Solin (Eds.), Amsterdam, Publication 23, Elsevier, pp. 13-27.

5.2.24 Guedes Soares, C. and Garbatov, Y. (2000), "Reliability of Maintained, Corrosion Protected Plate Subjected to Non-Linear Corrosion and Biaxial Compressive Loads", *Applications of Statistics and Probability (ICASP8-99)*, Melchers, R.O. and Stewart, Mark G. (Eds.), Balkema, pp. 345-352.

5.2.25 Guedes Soares, C., Teixeira, A.P. and Antão, P. (2000), "Accounting for Human Factors in the Analysis of Maritime Accidents", *Foresight and Precaution*, Cottam, M., Harvey, D., Pape, R. and Tait, J. (Eds.), Rotterdam, Balkema, pp. 521-528.

5.2.26 Trbojevic, V.M. and Guedes Soares, C. (2000), "Risk based Methodology for a Vessel Safety Management System", *Foresight and Precaution*, Cottam, M., Harvey, D., Pape, R. and Tait, J. (Eds.), Rotterdam, Balkema, pp. 483-496.

5.2.27 Bettencourt, J. (2000), "The Support to the Ship System, from its Conception to Demise", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. e Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 601-612.

5.2.28 Ferreira, S.A. and Guedes Soares, C. (2000), "Influence of the Subdivision in the Environmental Performance of Tankers", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. e Beirão Reis, J. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 349-369.

5.2.29 Garbatov, Y., Faúlha, A. and Guedes Soares, C. (2000), "Fatigue Strength of Cracked Structural Details" *The Sea and the Challenges Future* (in Portuguese), Guedes Soares, C. e Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 247-262.

5.2.30 Guedes Soares, C., Teixeira, A.P. and Antão, P. (2000), "Methodology for the Analysis of Maritime Accidents", *The Sea and the Challenges of the Future* (in Portuguese), Guedes Soares, C. e Beirão Reis, J. (Eds.), Edições Salamandra, Lda, Lisbon, pp. 311-333.

5.2.31 Petkov, G., Antão, P. and Guedes Soares, C. (2001), "Context Qualification of Individual Performance in Accidents", *Towards a Safer World*, Zio, E., Demichela, M. and Piccinini, N. (Eds), University of Torino, Italy, Vol. 3, pp. 1851-1858.

5.2.32 Santos, T.A. and Guedes Soares, C. (2002), "Multi-objective optimization of Ro-Ro ships watertight subdivision", *The Sea, Source of Sustainable Development* (in Portuguese), Guedes Soares, C., Beirão Reis, J. and Martins Guerreiro, M.B. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 325-345.

5.2.33 Antão, P. and Guedes Soares, C. (2002), "Organisation of Databases of Accident Data", *Risk Analysis III*, Brebbia, C. A. (Ed.), WITPress, pp. 395-403.

5.2.34 Guedes Soares, C., Shetty, N.K., Hagen, O., Teixeira, A.P., Pardi, L., Vrouwenvelder, A., Kragh, E. and Lauridsen, K. (2003), "Applications of Safety and Reliability Approaches in Various Industrial Sectors", *Safety & Reliability*, Bedford & Van Gelder (Eds.), Swets & Zeitlinger B.V., Lisse, Holland, pp. 719-726.

5.2.35 Antão, P. and Guedes Soares, C. (2003), "Analysis of High Speed Craft Accidents", *Safety & Reliability*, Bedford & Van Gelder (Eds.), Swets & Zeitlinger B.V., Lisse, Holland, Vol. I, pp. 37-44.

5.2.36 Bruce, G.J., Duan, M., Egorov, G.V., Folso, R., Fujimoto, Y., Garbatov, Y., Le Hire, J.-C., Shin, B.-C. and Vårdal, O.T. (2003), "Inspection and Monitoring", *Ship and Offshore Structures Congress* (ISSC 2003), 11-15 August, San Diego, USA, Vol. 2, Committee, V. 2, pp. 37-69.

5.2.37 Antão, P. and Guedes Soares, C. (2004), "Analysis of accidents of Portuguese fishing vessels", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda., Lisbon, pp. 627-643.

5.2.38 Antão, P. and Guedes Soares, C. (2004), "Application of formal safety assessment in European ports with high speed vessels interface", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 395-415.

5.2.39 Velho Gouveia, J. and Guedes Soares, C. (2004), "The problem of identifying places of refuge on the Portuguese coast", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 417-429.

5.2.40 Velho Gouveia, J. and Guedes Soares, C. (2004), "Implications of the implementation of the ISPS code on maritime safety", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 533-544.

5.2.41 Santos, T.A., Perdigão, J., Ferreira, S.A. and Guedes Soares, C. (2004), "Application of probabilistic methods on the study of subdivision and stability on damaged passenger Ro-Ro ships", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds.), Edições Salamandra, Lda., Lisbon, pp. 665-677.

5.2.42 Ribeiro e Silva, S., Pérez-Rojas, L. and Guedes Soares, C. (2004), "Experimental study of parametric resonance on a fishing vessel", *Maritime Activities and Engineering* (in Portuguese), Guedes Soares, C. and Gonçalves de Brito, V. (Eds), Edições Salamandra, Lda., Lisbon, pp. 645-663.

5.2.43 Antão, P. and Guedes Soares, C. (2005), "Analysis of Accident Scenarios of RoPax Vessels", *Advances in Safety and Reliability*, Kolowrocki, K. (Eds.), Taylor & Francis Group, London, pp. 75-83.

5.2.44 Antão, P., Guedes Soares, C., Fracchia, M. and Capoulade, F. (2005), "Application of the Formal Safety Assessment to the Reduction of Turn Around Time in the High Speed Craft Terminal of the Port of Nice", *Advances in Safety and Reliability*, Kolowrocki, K. (Eds.), Taylor & Francis Group, London, pp. 85-93.

5.2.45 Teixeira, A.P. and Guedes Soares, C. (2005), "Reliability of Load Bearing Steel Plates subjected to Localised Heat Loads", *Advances in Safety and Reliability*, Kolowrocki, K. (Eds.), Taylor & Francis Group, London, pp. 1911-1918.

5.2.46 Caldeira Duarte, J. and Guedes Soares, C. (2005), "Maintenance planning in the product life-cycle perspective", *Analysis and Management of Risk, Safety and Reliability* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. II, pp. 501-520.

5.2.47 Caldeira Duarte, J. and Guedes Soares, C. (2005), "Re-assessment of the Reliability of Systems subject to Inspections", *Analysis and Management of Risk, Safety and Reliability* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. II, pp. 577-590.

5.2.48 Garbatov, Y. and Guedes Soares, C. (2005), "Reliability based maintenance planning of structures", *Analysis and Management of Risk, Safety and Reliability* (in Portuguese), Edições Salamandra, Lda., Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Lisbon, Vol. II, pp. 485-500.

5.2.49 Guedes Soares, C. (2005), "Methodology for Risk Analysis and Management", *Analysis and Management of Risk, Safety and Reliability* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. 1, pp. 19-32.

5.2.50 Guedes Soares, C., Jacinto, C., Pereira, Z., Antão, P., Fialho, T., Canoa, M. and Almeida, T. (2005), "Characterization of work accidents by sector of activity", *Analysis and Management of Risk, Safety and Reliability* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. II, pp. 259-274.

5.2.51 Jacinto, C. (2005), "Methodology for analysis of work accidents", *Analysis and Management of Risk, Safety and Reliability* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. II, pp. 183-202.

5.2.52 Panayotova, M., Garbatov, Y. and Guedes Soares, C. (2005), "Black Sea Water Pollution", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis Group, London, UK, Vol. 2, pp. 1733-1736.

5.2.53 Panayotova, M., Garbatov, Y. and Guedes Soares, C. (2005), "Water and Air Pollution Caused by Maritime Activities", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*,

Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis Group, London, UK, Vol. 2, pp. 1737-1750.

5.2.54 Santos, T.A. and Guedes Soares, C. (2005), "Multi-Objective Optimization of Fast Ferry Watertight Subdivision", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 893-900.

5.2.55 Santos, T.A. and Guedes Soares, C. (2005), "Risk-Based Approach to the Design of Passenger Ro-Ro Ships Regarding Damaged Stability", *Maritime Transportation and Exploitation of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y., Fonseca, N. (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 1583-1592.

5.2.56 Teixeira, A.P., Antão, P. e Guedes Soares, C. (2005), "Risk and management analysis in the maritime industry", *Analysis and Management of Risk, Safety and Reliability* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. 1, pp. 119-134.

5.2.57 Teixeira, A.P., Guedes Soares, C. and Wang, C. (2005), "Reliability Based Approach to Determine the Design Loads for the Remaining Hull Lifetime", *Maritime Transportation and Exploitaton of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis Group, London, UK, Vol. 2, pp. 1611-1620.

5.2.58 Teixeira, A.P. and Guedes Soares, C. (2005), "Assessment of Partial Safety Factors for Tankers", *Maritime Transportation and Exploitaton of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis Group, London, UK, Vol. 2, pp. 1601-1610.

5.2.59 Teixeira, A.P., Luís, R.M. and Guedes Soares, C. (2005), "Simulation of random corrosion fields in metallic components", *Analysis and Management of Risk, Safety and Reliability (in Portuguese)*, Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Vol. II, pp. 451-468.

5.2.60 Zayed, A., Garbatov, Y., Guedes Soares, C. and Wang, G. (2005), "Environmental Factors Affecting the Time Dependent Corrosion Wastage of Marine Structures", *Maritime Transportation and Exploitaton of Ocean and Coastal Resources*, Guedes Soares, C., Garbatov, Y. and Fonseca, N. (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 589-598.

5.2.61 Sadovský, Z., Guedes Soares, C. and Teixeira, A.P. (2005), "Random Field of Initial Deflections and Strength of Thin Plates", *Advances in Safety and Reliability*, Kolowrocki, K. (Eds.), Taylor & Francis Group, London, UK, pp. 1735-1743.

5.2.62 Teixeira, A.P. and Guedes Soares, C. (2006), "Ultimate Strength of Rectangular Plates with Random Fields of Corrosion", *Advances in Reliability and Optimization of Structural Systems*, Sorensen, J. D. and Frangopol, D. M. (Eds.), Taylor & Francis Group, London, UK, pp. 179-186.

5.2.62a Ramalhoto, M.F. and Goeb, R. (2006), "Industrial Aspects of Data Quality", *Safety and Reliability for Managing Risk*, Guedes Soares, C. and Zio, E. (Eds.), Taylor & Francis Group, London, UK, Vol. 2, pp. 949-955.

5.2.63 Hussein, A.W., Teixeira, A.P. and Guedes Soares, C. (2006), "Reliability Assessment of the Burst Strength of Corroded Pipelines", *Safety and Reliability for Managing Risk*, Guedes Soares, C. & Zio, E. (Eds.), Taylor & Francis Group, London, UK, Vol. 2, pp. 1467-1474.

5.2.64 Luís, R.M., Teixeira, A.P. and Guedes Soares, C. (2006), "Longitudinal Strength Reliability of a Tanker Accidentally Grounded", *Safety and Reliability for Managing Risk*, Guedes Soares, C. & Zio, E. (Eds.), Taylor & Francis Group, London, UK, Vol. 2, pp. 1499-1509.

5.2.65 Antão, P., Almeida, T., Jacinto, C. and Guedes Soares, C. (2006), "Causes of Occupational Accidents in the Fishing Sector in Portugal", *Safety and Reliability for Managing Risk*, Guedes Soares, C. & Zio, E. (Eds.), Taylor & Francis Group, London, UK, Vol. 1, pp. 741-749.

5.2.66 Velho Gouveia, J.A. and Guedes Soares, C. "Implementation perspectives of a long range identification and monitoring system for ships", *Innovation and Developmente in the Maritime Activities* (in Portuguese), Guedes Soares, C. and Brito, V.G. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. XIV, pp. 325-338.

5.2.67 Paik, J.K., Brennan, F., Carlsen, C.A., Daley, C., Garbatov, Y., Ivanov, L., Rizzo, C.M., Simonsen, B.C., Yamamoto, N. and Zhuang, H.Z. (2006), "Condition Assessment of Aged Ships", *Ship and Offshore Structures Congress* (ISSC 2006), Frize, P. A. and Shenoi, R. A. (Eds.), 20-25 August, Southampton - UK, Vol. 2, Committee V.6, pp. 265-315.

5.2.68 Hussein, A.W., Teixeira, A.P. and Guedes Soares, C. (2007), "Impact of the Common Structural Rules on the Reliability of a Bulk Carrier", *Advancements in Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 529-538.

5.2.68a Ramalhoto, M.F. (2007), "Stochastics for the Quality Movement: An Integrated Approach to Reliability and Safety", *Statistical Practice in Business and Industry*, Coleman, S.Y., Greenfield, T., Montgomery, D. and Stewardson, D.J. (Eds.), Wiley & Sons, Chapter 12: Safety and Reliability Engineering, Part II.

5.2.69 Zayed, A., Garbatov, Y. and Guedes Soares, C. (2007), "Factors Affecting the Non-destructive Inspection of Marine Structures", *Advancements in Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 565-576.

5.2.70 Santos, F.P., Teixeira, A.P. and Guedes Soares, C. (2007), "Qualitative analysis of risk in the coal fueling system at the Sines thermo electrical plant", *Public and Industrial Risks* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. II, pp. 1323-1338.

5.2.71 Lima Duarte, P. and Guedes Soares, C. (2007), "Professional risks at a Hospital" *Public and Industrial Risks* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. II, pp. 917-934.

5.2.72 Correia dos Santos, J. and Guedes Soares, C. (2007), "Risk assessment methodology of the transport of dangerous materials by road" *Public and Industrial Risks* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. II, pp. 599-622.

5.2.73 Fialho, T., Jacinto, C. and Guedes Soares, C. (2007), "Analysis of work accidents in the construction industry in Portugal" *Public and Industrial Risks* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. II, pp. 1115-1136.

5.2.74 Jacinto, C., Pereira, Z., Canoa, M., Fialho, T. and Guedes Soares, C. (2007), "The organisational precursors of work accidents in the heavy metal industry", *Public and Industrial Risks* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. II, pp. 1077-1098.

5.2.75 Silva, C.N. and Jacinto, C. (2007), "Risk assessment of work accidents in Shipbuilding by means of Bow-Tie approach", *Public and Industrial Risks* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. I, pp. 833-853.

5.2.76 Silva, C., Peixe, M., Antão, P. and Guedes Soares, C. (2007), "Risk analysis of a multi-use terminal" *Public and Industrial Risks* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (editores), Edições Salamandra, Lda, Lisboa, Portugal, Vol. I, pp. 479-499.

5.2.77 Guedes Soares, C. (2007), "Public risks and Governance", *Public and Industrial Risks* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. I, pp. 19-31.

5.2.78 Pinto, A., Simões, R. and Quaresma Dias, J. (2007), "Risk analysis in an electric and electronic sector company" *Public and Industrial Risks* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. II, pp. 1271-1286.

5.2.79 Teixeira, A. P. and Guedes Soares, C. "Economical and social criteria for risk acceptance", *Public and Industrial Risks* (in Portuguese), 2007, Guedes Soares, C., Teixeira, A. P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. I, pp. 45-63.

5.2.80 Teixeira, A.P. and Guedes Soares, C. (2007), "Economical considerations in establishing an optimal safety level for structures", *Public and Industrial Risks* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. I, pp. 623-642.

5.2.81 Duarte, C.V. and Teixeira, A.P. (2007), "Preparation of an Explosion Protection Handbook for the Hydrogenation Sector in the Manufacture of Hydrogen Peroxide", *Public and Industrial Risks* (in Portuguese), Guedes Soares, C., Teixeira, A. P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. II, pp. 1287-1302.

5.2.82 Simões, R., Pinto, A. and Quaresma Dias, J. (2007), "Industrial and work safety in an international context: "SEVESO" e "PIC"", *Public and Industrial Risks* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. II, pp. 869-882.

5.2.83 Bernardino, M. and Corte Real, M.J. (2007), "Risk assessment of drought in Portugal", *Public and Industrial Risks* (in Portuguese), Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. I, pp. 241-252.

5.2.84 Canas, C., Painho, M. and Monteiro, M. (2007), "Exploratory spatial risk assessment of the occurrence of the crime of theft" *Public and Industial Risks (in Portuguese)*, Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. I, pp. 193-207.

5.2.85 Velho Gouveia, J.A., Antão, P. and Guedes Soares, C. (2007), "Accidents in the Coastal area under Portuguese Jurisdiction", *Public and Industrial Risks (in Portuguese)*, Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda, Lisbon, Portugal, Vol. I, pp. 499-516.

5.2.86 Leitão, M.E., Antão, P. and Guedes Soares, C. (2007), "Study of the risk for a company in the corporate neon image sector", *Public and Industrial Risks (in Portuguese)*, Guedes Soares, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisbon, Portugal, Vol. II, pp. 1353-1370

5.2.87 Jacinto, C., Almeida, T., Antão, P. and Guedes Soares, C. (2007), "Causes and circumstances of work accidents in Portugal 2001-2003", *Planning and Survey Office of the Ministry for Work and Social Security*, Lisbon, Colecção Cogitum, n.º 27, pp. 153.

5.2.88 Garbatov, Y. and Guedes Soares, C. (2007), "Reliability of Aged Ship Structures", *Condition Assessment of Aged Structures*, Paik, J.K. and Melchers, R.E. (Eds.), Woodhead Publishing Ltd., Cambridge, England, pp. 253-286.

5.2.89 Borlenghi, M., Figari, M., Carvalho, I.S. and Guedes Soares, C. (2008), "Modelling and assessment of Ferries' environmental impact: a case study" *Maritime Industry, Ocean Engineering and Coastal Resources*, Guedes Soares, C. and Kolev, P. (Eds.), Taylor & Francis Group, London – UK, pp. 1135-1144.

5.2.90 Hussein, A.W., Teixeira, A.P. and Guedes Soares, C. (2008), "Assessment of the IACS Common Structural Hull Girder Check Applied to Double Hull Tankers" *Maritime Industry, Ocean Engineering and Coastal Resources*, Guedes Soares, C. and Kolev, P. (Eds.), Taylor & Francis Group, London, UK, pp. 175-184.

5.2.91 Panayotova, M., Garbatov, Y. and Guedes Soares, C. (2008), "Corrosion Monitoring of Ship Hulls" *Maritime Industry, Ocean Engineering and Coastal Resources*, Guedes Soares, C. and Kolev, P. (Eds.), Taylor & Francis Group, London, UK, pp. 263-270.

5.2.92 Antão, P., Grande, O., Trucco, P. and Guedes Soares, C. (2008), "Analysis of Maritime Accident Data with BBN Models", *Safety, Reliability and Risk Analysis: Theory, Methods and Applications*, Martorell et al. (Eds.), Taylor & Francis Group, London, UK.

5.2.93 Carvalho, I.S., Antão, P., and Guedes Soares, C. (2008), "Modelling the environmental impact of ship dismantling", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda., Lisboa, pp. 743-773.

5.2.94 Antão, P., Santos, T.A. and Guedes Soares, C. (2008), "Design solutions for a small LNG tanker", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda., Lisboa, pp. 791-807.

5.2.95 Varela, S.M., Santos, T. and Guedes Soares, C., (2008), "Monitoring system for the safety of fishing vessels subject to wave loads", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda., Lisbon, pp. 887-900.

5.2.96 Carvalho, T., Santos, T.A., Correia Rodrigues, A. and Guedes Soares, C. (2008), "Evolution of the design perspective of rescue equipment", *The Portuguese Maritime Sector* (in Portuguese), 2008, Edições Salamandra, Lda., Lisbon, pp. 821-842.

5.2.97 Santos, T., Villavicencio, R. and Guedes Soares, C. (2008), "Stability and safety of fishing vessels subject to wave movements", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda., Lisbon, pp. 871-886.

5.2.97a Gouveia, J.V. and Guedes Soares, C. (2008), "Accidents with Oil Spills in the Maritime Space of Portuguese Jurisdiction", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda., Lisbon, pp. 913-931.

5.2.97b Agua, P.B. and Mendes, J.P. (2008), "Systemic Approach to the Technological Development through industry of Naval Military Systems", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda., Lisbon, pp. 27-40.

5.2.97c Neves, R.O. and Mendes, J.P. (2008), "Portugal as a European Logistics Platform", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda., Lisbon, pp. 253-267.

5.2.97d Vairinhos, V.M., Parreira, R. and Lobo, V. (2008), "Detection of the Tendencies of the Intensity of the Breakdowns Basedon Historical Records of Interventions", *The Portuguese Maritime Sector* (in Portuguese), Edições Salamandra, Lda., Lisbon, pp. 843-856.

5.2.98 Segovia, M.C. and Guedes Soares, C. (2008), "Comparison of phase-type distributions with mixed and additive Weibull models", *Safety, Reliability and Risk Analysis: Theory, Methods and Applications*, Taylor & Francis Group, London, UK, pp. 881-889.

5.2.99 Garbatov, Y. and Guedes Soares, C. (2009), "Corrosion wastage statistics and maintenance planning of corroded hull structures of bulk carriers", *Analysis and Design of Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 215-222.

5.2.100 Gaspar, B., Garbatov, Y. and Guedes Soares, C. (2009), "Effect of uncertain weld shape on the structural hot-spot stress distribution", *Analysis and Design of Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 267-278.

5.2.101 Carvalho, I.S., Antão, P. and Guedes Soares, C. (2009), "Modelling of environmental impacts of ships' dismantling", *Analysis and Design of Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 533-542.

5.2.102 Domzalick, P., Skalski, I., Guedes Soares, C. and Garbatov, Y. (2009), "Large scale corrosion tests", Analysis *and Design of Marine Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 193-198.

5.2.103 Parunov, J., Corak, M. and Guedes Soares, C. (2009), "Statistics of still water bending moments on double hull tankers", *Analysis and Design of Marina Structures*, Guedes Soares, C. and Das, P.K. (Eds.), Taylor & Francis Group, London, UK, pp. 495-500.

5.2.104 Carvalho, I.S. and Guedes Soares, C. (2009), "Analysis of two critical infrastructures cases in the Energy and Transport sectors", *Industrial and Emerging Risks* (in Portuguese), Guedes Soares, C., Jacinto, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisboa, Vol. 1, pp. 101-115.

5.2.105 Carvalho, I.S. and Guedes Soares, C. (2009), "Approaches to critical infrastructures protection in Portugal", *Industrial and Emerging Risks* (in Portuguese), Guedes Soares, C., Jacinto, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisboa, Vol. 1, pp. 85-100.

5.2.106 Teixeira, A.P. and Guedes Soares, C. (2009), "Modelling and analysis of production systems availability by stochastic Petri-nets", *Industrial and Emerging Risks* (in Portuguese), Guedes Soares, C., Jacinto, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisboa, Vol. 1, pp. 469-488.

5.2.107 Antão, P. and Guedes Soares, C. (2009), "Analysis of maritime accidents data by a Bayesian net model", *Industrial and Emerging Risks* (in Portuguese) Guedes Soares, C., Jacinto, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisboa, Vol. 2, pp. 877-893.

5.2.108 Pedro Mendes, J., Água, P.B. and Garcia, J. M. (2009), "Dynamics of risk in project funding", *Industrial and Emerging Risks* (in Portuguese), Guedes Soares, C., Jacinto, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisboa, Vol. 1. pp. 55-66.

5.2.109 Antão, P., Pacheco, M.B. and Guedes Soares, C. (2009), "Application of Geographic Information Systems (GIS) to monitor and manage risk in ports", *Industrial and Emerging Risks* (in Portuguese), Guedes Soares, C., Jacinto, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisboa, Vol. 1. pp. 275-289.

5.2.110 Gomes Lopes, F., Pedro Mendes, J. and Guedes Soares, C. (2009), "Method for risk identification and management in engineering projects", *Industrial and Emerging Risks* (in Portuguese) Guedes Soares, C., Jacinto, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisboa, Vol. 1. pp. 291-307.

5.2.111 Simões, R.F., Pinto, A. and Quaresma Dias, J. (2009), "Safety of Chemicals in the EU: from the 67/548 Directive to GHS", *Industrial and Emerging Risks* (in Portuguese), Guedes Soares, C., Jacinto, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisboa, Vol. 1. pp. 337-357.

5.2.112 Santos, F.P., Carvalho, I.S., Teixeira, A.P., Antão, P. and Guedes Soares, C. (2009), "Safety analysis of the coal fueling system at the Sines thermo electrical plant", *Industrial and Emerging Risks* (in Portuguese), Guedes Soares, C., Jacinto, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisboa, Vol. 1. pp. 409-426.

5.2.113 Carracinha, F. and Jacinto, C. (2009), "Application of the SFA (Safety Function Analisys) method to a electric energy transformation plant of RENOVA", *Industrial and Emerging Risks* (in Portuguese),

Guedes Soares, C., Jacinto, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisboa, Vol. 2. pp. 827-844.

5.2.114 Fialho, T., Jacinto, C. and Guedes Soares, C. (2009), "New performance indicators of health and safety at work", *Industrial and Emerging Risks* (in Portuguese), Guedes Soares, C., Jacinto, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisboa, Vol. 2. pp. 931-945.

5.2.115 Matos, N., Saque, C. and Jacinto, C. (2009), "SST Management systems in higher education institutions", *Industrial and Emerging Risks* (in Portuguese), Guedes Soares, C., Jacinto, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisboa, Vol. 2, pp. 979-995.

5.2.116 Simões, R.F., Pinto, A. and Quaresma Dias, J. (2009), "Political and community action in Safety at work", *Industrial and Emerging Risks* (in Portuguese), Guedes Soares, C., Jacinto, C., Teixeira, A.P. and Antão, P. (Eds.), Edições Salamandra, Lda., Lisboa, Vol. 2, pp. 1027-1042.

5.2.117 Sadovský, Z. and Guedes Soares, C. (2010), "Artificial neural network in probabilistic assessment of strength of thin imperfect plates", *Reliability, Risk and Safety - Theory and Applications*, Bris, R., Guedes Soares, C., & Martorell, S. (Eds.), Taylor & Francis Group, London, UK, Vol. 2, pp. 1373-1376.

5.2.118 Garbatov, Y. and Guedes Soares, C. (2010), "Maintenance planning for the decks of bulk carriers and tankers", *Safety, Reliability and Risk of Structures, Infrastructures and Engineering Systems*, Furuta, Frangopol & Shinozuka (Eds.), Taylor & Francis Group, London, pp. 3517-3524.

5.2.119 Teixeira, A.P. and Guedes Soares, C. (2010), "Reliability assessment of intact and damaged ship structures", *Advanced Ship Design for Pollution Prevention - Ship Structural Reliability with Respect to Ultimate Strength*, Guedes Soares, C. and Parunov, J. (Eds.), Taylor & Francis Group, London, UK, pp. 79-93.

5.2.120 Garbatov, Y. and Guedes Soares, C. (2010), "Risk based maintenance of deteriorated ship structures accounting for historical data", *Advanced Ship Design for Pollution Prevention - Fatigue Reliability and Rational Inspection Planning*, Guedes Soares, C. and Parunov, J. (Eds.), Taylor & Francis Group, London, UK, pp. 131-147.

5.2.121 Gouveia, J.V. and Guedes Soares, C. (2010), "Oil Spill Incidents in Portuguese Waters", *Advancedm Ship Design for Pollution Prevention - Collision and Grounding as Criteria in Design of Ship Structures*, Guedes Soares, C. and Parunov, J. (Eds.), Taylor & Francis Group, London, UK, pp. 217-223.

5.2.122 Santos, T.A. and Guedes Soares, C. (2010), "Probabilistic Approach to Damage Stability", *Advanced Ship Design for Pollution Prevention - Probabilistic Approach to Damage Stability*, Guedes Soares, C. and Parunov, J. (Eds.), Taylor & Francis Group, London, UK, pp. 227-242.

5.2.123 Teixeira, A.P. and Guedes Soares, C. (2010), "Response surface reliability analysis of steel plates with random fields of corrosion", *Safety, Reliability and Risk of Structures, Infrastructures and Engineering Systems*, Furuta, Frangopol & Shinozuka (Eds.), Taylor & Francis Group, London, UK, pp. 474-481.

5.2.124 Bolt, H., Morris, J., Pedrali, M., Antão, P. and Guedes Soares, C. (2010), "Techniques for Human Reliability Evaluation", *Safety and Reliability of Industrial Products, Systems and Structures*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 141-156.

5.2.125 Guedes Soares, C. (2010), "General Framework for Safety and Reliability of Industrial Products, Systems and Structures", *Safety and Reliability of Industrial Products, Systems and Structures*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 3-5.

5.2.126 Guedes Soares, C., Caldeira Duarte, J., Garbatov, Y., Zio, E. and Sorensen, J.D. (2010), "Framework for Maintenance Planning", *Safety and Reliability of Industrial Products, Systems and Structures*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 33-52.

5.2.127 Guedes Soares, C., Garbatov, Y. and Teixeira, A.P. (2010), "Methods of Structural Reliability Applied to Design and Maintenance Planning of Ship Hulls and Floating Platforms", *Safety and Reliability of Industrial Products, Systems and Structures*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 191-206.

5.2.128 Guedes Soares, C., Teixeira, A.P. and Antão, P. (2010), "Risk-based Approaches to Maritime Safety", *Safety and Reliability of Industrial Products, Systems and Structures*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 433-442.

5.2.129 Kragh, E., Faber, M.H. and Guedes Soares, C. (2010), "Framework for Integrated Risk Assessment", *Safety and Reliability of Industrial Products, Systems and Structures*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 7-19.

5.2.130 Panayotova, M., Garbatov, Y. and Guedes Soares, C. (2010), "Corrosion of Steels in Marine Environment, Monitoring and Standards", *Safety and Reliability of Industrial Products, Systems and Structures*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 369-412.

5.2.131 Van Gelder, P.H.A.J.M., Nadim, F. and Guedes Soares, C. (2010), "Risk Assessment of Natural Hazards with Applications to Landslides and Abnormal Waves", *Safety and Reliability of Industrial Products, Systems and Structures*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 85-98.

5.2.132 Quaresma Dias, J., (2010) "The Integrating Role of Ports in the Global Supply Chain" (in Portuguese), *Logística e Gestão da cadeia de Abastecimento*, Edições Sílabo Lda., Lisboa, pp. 1-36.

5.2.133 Hussein, A.W. and Guedes Soares, C. (2011), "Reliability assessment of intact and damaged bulk carriers", *Advances in Marine Structures*, Guedes Soares C. and Fricke, W. (Eds.), Taylor & Francis Group, London, UK, pp. 679-690.

5.2.134 Chen, N.-Z. and Guedes Soares, C. (2011), "Ultimate Strength and Reliability of Composite Material Structures", *Marine Technology and Engineering*, Guedes Soares, C. Garbatov, Y. Fonseca, N. Teixeira, A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 817-840.

5.2.135 Garbatov, Y. and Guedes Soares, C. (2011), "Reliability Based Maintenance of Marine Structures", *Marine Technology and Engineering*, Guedes Soares, C. Garbatov, Y. Fonseca, N. Teixeira, A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1101-1120.

5.2.136 Garbatov, Y., Zayed, A. and Guedes Soares, C. (2011), "Corrosion Modeling in Marine Structures", *Marine Technology and Engineering*, Guedes Soares, C. Garbatov, Y. Fonseca, N. Teixeira, A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1121-1156.

5.2.137 Jacinto, C., Fialho, T., Antão, P. and Guedes Soares, C. (2011), "Occupational Safety in Different Industrial Sectors", *Marine Technology and Engineering*, Guedes Soares, C. Garbatov, Y. Fonseca, N. Teixeira, A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1195-1214.

5.2.138 Ramalhoto, M.F. (2011), "Queuing systems and quality management as part of 'Stochastic Science & Engineering'", *Marine Technology and Engineering*, Guedes Soares, C. Garbatov, Y. Fonseca, N. Teixeira, A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1259-1281.

5.2.139 Santos, T.A. and Guedes Soares, C. (2011), "Deterministic and Probabilistic Methods Applied to Damage Stability", *Marine Technology and Engineering*, Guedes Soares, C. Garbatov, Y. Fonseca, N. Teixeira, A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1297-1312.

5.2.140 Zayed, A., Garbatov, Y. and Guedes Soares, C. (2011), "Time-variant Reliability Assessment", *Marine Technology and Engineering*, Guedes Soares, C. Garbatov, Y. Fonseca, N. Teixeira, A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1395-1412.

5.2.141 Teixeira, A.P. and Guedes Soares, C. (2011), "Reliability assessment of plate elements with random properties", *Marine Technology and Engineering*, Guedes Soares, C. Garbatov, Y. Fonseca, N. Teixeira, A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1361-1375.

5.2.142 Jacinto, C., Micheli, G.J.L., Masi, D. and Cagno, E. (2012), "Economic Sustainability of Safety and Health at Work", (in Portuguese), Guedes Soares, C. et al, (Editores), *Riscos, Segurança e Sustentabilidade*, Edições Salamandra, Lda., Lisboa, pp. 1143-1162.

5.2.143 Antão, P. and Guedes Soares, C. (2012), "Risk Assessment to the approach and berth of LNGC vessels at the FLNG systems", *Maritime Engineering and Technology*, Guedes Soares, C. Garbatov, Y. Sutulo, S. Santos, T.A. (Eds.), Taylor and Francis Group, pp. 425-432.

5.2.144 Natacci, F.B., Antão, P., Guedes Soares, C. and Martins, M. R. (2012), "Modelling the risk of product spills in LNG tankers", *Maritime Engineering and Technology*, Guedes Soares, C. Garbatov, Y. Sutulo, S. Santos, T.A. (Eds.), Taylor and Francis Group, pp. 433-439.

5.2.145 Santos, F.P., Teixeira, A.P. and Guedes Soares, C. (2012), "Production regularity assessment using stochastic Petri nets with predicates", *Maritime Engineering and Technology*, Guedes Soares, C. Garbatov, Y. Sutulo, S. Santos, T.A. (Eds.), Taylor and Francis Group, pp. 441-450.

5.2.146 Silva, J.E., Garbatov, Y. and Guedes Soares, C. (2012), "Reliability assessment of a randomly non-uniform corroded plate subjected to compressive load", *Maritime Engineering and Technology*,

Guedes Soares, C. Garbatov, Y. Sutulo, S. Santos, T.A. (Eds.), Taylor and Francis Group, pp. 451-458.

5.2.147 Teixeira, A. P. and Guedes Soares, C. (2012), "Fundamentals of Reliability", *Thermal Power Plant Performance Analysis*, de Souza, Gilberto Francisco Martha (Ed.), Springer, pp. 91-122.

5.2.148 Zhang, L., Dong, S. and Guedes Soares, C. (2012), "Vertical breakwater reliability analysis with direct integral method", *Maritime Engineering and Technology*, Guedes Soares, C. Garbatov, Y. Sutulo, S. Santos, T.A. (Eds.), Taylor and Francis Group, pp. 459-463.

5.2.149 Teixeira, A.P. and Guedes Soares, C. (2012), "Probabilistic Modelling of the strength and safety assessment of reinforced ship panels" (in Portuguese), Guedes Soares, C. et al, (Editores), *Riscos, Segurança e Sustentabilidade*, Edições Salamandra, Lda., Lisboa, pp. 411-429.

5.2.150 Carreira, A., Mendes, J.P., and Guedes Soares, C. (2012), "Business Risks and Network Robustness", (in Portuguese), Guedes Soares, C. et al, (Editores), *Riscos, Segurança e Sustentabilidade*, Edições Salamandra, Lda., Lisboa, pp. 77-92.

5.2.151 Mendes, J. P. and Guedes Soares, C. (2012), "Influence of Organisational Culture on the Readiness for Emergencies of Critical Infrastructures", (in Portuguese), Guedes Soares, C. et al, (Editores), *Riscos, Segurança e Sustentabilidade*, Edições Salamandra, Lda., Lisboa, pp. 187-202.

5.2.152 Mendes, J.P. and Marques, M. (2012), "Risk Identification in the adoption of Strategic Technology", (in Portuguese), Guedes Soares, C. et al, (Editores), *Riscos, Segurança e Sustentabilidade*, Edições Salamandra, Lda., Lisboa, pp. 17-31.

5.2.153 Mendes, J.P. and Água, P.B. (2012), "Strategic Implications of the Definition of Risk in Telecomunication Networks", (in Portuguese), Guedes Soares, C. et al, (Editores), *Riscos, Segurança e Sustentabilidade*, Edições Salamandra, Lda., Lisboa, pp. 45-58.

5.2.154 Pascoal, C. and Guedes Soares, C. (2012), "Risk Assessment of a section of the Network Transporting Energy in Portugal", (in Portuguese), Guedes Soares, C. et al, (Editores), *Riscos, Segurança e Sustentabilidade*, Edições Salamandra, Lda., Lisboa, pp. 303-323.

5.2.155 Santos, F.P., Teixeira, A.P. and Guedes Soares, C. (2012), "Application of Stochastic Petri Nets to the development of unscheluded maintenance strategies", (in Portuguese), Guedes Soares, C. et al, (Editores), *Riscos, Segurança e Sustentabilidade*, Edições Salamandra, Lda., Lisboa, pp. 465-482.

5.2.156 Antao, P., Teixeira, A.P. and Guedes Soares, C. (2012), "Development of the Regulations of the Sustainability of the Maritime Sector", (in Portuguese), Guedes Soares, C. et al, (Editores), *Riscos, Segurança e Sustentabilidade*, Edições Salamandra, Lda., Lisboa, pp. 647-661.

5.2.157 Caetano, L.F., Teixeira, P.F. and Teixeira, A.P. (2012), "Reliability of Railway Operations – Stochastic Modelling of Delays with Petri Nets", (in Portuguese), Guedes Soares, C. et al, (Editores), *Riscos, Segurança e Sustentabilidade*, Edições Salamandra, Lda., Lisboa, pp. 719-735.

5.2.158 Pais, H.M., Gomes Lopes, F. and Guedes Soares, C. (2012), "Risk Assessment of Shipbulding and Shiprepair Projects", (in Portuguese), Guedes Soares, C. et al, (Editores), *Riscos, Segurança e Sustentabilidade*, Edições Salamandra, Lda., Lisboa, pp. 855-872.

5.2.159 Farinha, M.M., Boto, M.P., Bejinha, A. and Teixeira, A.P. (2012), "The Importance of Risk Management of Project Contracts", (in Portuguese), Guedes Soares, C. et al, (Editores), *Riscos, Segurança e Sustentabilidade*, Edições Salamandra, Lda., Lisboa, pp. 873-881.

5.2.160 Lampreia, S.S., Vairinhos, M., Matos, A.S., Requeijo, J.G. and Dias, J.M. (2012), "Conditioned maintenance - predictive analysis in maritime propulsion engines", *Maritime Engineering and Technology*, Guedes Soares, C. Garbatov, Y. Sutulo, S. Santos, T.A. (Eds.), Taylor and Francis Group, pp. 127-131.

5.2.161 Silva, C. and Guedes Soares, C. (2012), "Planning a fleet of containerships for a given set of ports", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 87-96.

5.2.162 Silveira, P.A.M., Teixeira, A.P. and Guedes Soares, C. (2012), "Analysis of maritime traffic off the coast of Portugal", *Maritime Engineering and Technology*, Guedes Soares, C., Garbatov, Y., Sutulo, S., Santos, T.A. (Eds.), Taylor and Francis Group, pp. 35-41.

5.2.163 Simões, A., Salvador, R. and Guedes Soares, C. (2012), "Planning the maritime zone and the Portuguese maritime cluster (*in Portuguese*) ", *Engenharia e Tecnologia Marítima*, C. Guedes Soares & Nuno Santos, (Eds.), Edições Salamandra, Lda., Lisboa, pp. 99-122.

5.2.164 Quaresma Dias, J., Guedes Soares, C. and Salvador, R. (2012), "The stagnation trajectory of Cargo Movement at National Ports (*in Portuguese*)", *Engenharia e Tecnologia Marítima*, C. Guedes Soares & Nuno Santos, (Eds.), Edições Salamandra, Lda., Lisboa, pp. 71-84.

5.2.165 Correia Ferreira, A., Salvador, R. and Guedes Soares, C. (2012), "The intersectorial relationship within the Portuguese Maritime Cluster (*in Portuguese*) ", *Engenharia e Tecnologia Marítima*, C. Guedes Soares & Nuno Santos, (Eds.), Edições Salamandra, Lda., Lisboa, pp. 85-98.

5.2.165a Brunner, E., Birmingham, R.W., Byklum, E., Chen, Y., Cheng, Y.F., Dasgupta, J., Egorov, G., Juhl, J., Kang, B.S., Karr, D., Kawamura, Y., Klanac, A., O'Neill, S., Rizzuto, E., Teixeira, A.P. and Yoshida, K. (2012), "Design Principles and Criteria", *18th International Ship and Offshore Structures Congress (ISSC 2012)*, W. Fricke & R. Bronsart, (Eds.), Elsevier, pp. 201-242.

5.2.166 Gaspar, B., Teixeira, A.P. and Guedes Soares, C. (2013), "Assessment of the efficiency of Kriging models for reliability analysis of complex structures", *Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures*, G. Deodatis, B.R. Ellingwood and D.M. Frangopol (Eds.), Taylor & Francis Group, London, UK, pp. 5247-5255.

5.2.167 Antao, P., Teixeira, A.P. and Guedes Soares, C. (2014), "Integration of human factors into the ship design process", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 443-452.

5.2.168 Santos, F.P., Teixeira, A.P. and Guedes Soares, C. (2014), "Influence of logistic strategies on the availability and maintenance costs of an offshore wind turbine", Safety, Reliability and Risk Analysis: Beyond the Horizon, Steenbergen, R.D.J.M., van Gelder, P.H.A.J.M., Miraglia, S. & Vrouwenvelder, A.C.W.M.T. (Eds.), CRC Press, Amsterdam, The Netherlands, pp. 791-799.

5.2.169 Cordeiro, P.F., Jacinto, C. and Santos, F.P. (2014), "Assessing the intercoder reliability of the RIAAT process", *Occupational Safety and Hygiene II*, Arezes et al (Eds.), Taylor and Francis Group, London, UK, pp. 19-24.

5.2.170 Makouei, S.H., Teixeira, A.P. and Guedes Soares, C. (2014), "Reliability analysis of a corroded double hull Aframax tanker ship for hull girder and deck panel limit states", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 735-746.

5.2.171 Karmakar, D. and Guedes Soares, C. (2014), "Reliability based design loads of offshore semi-submersible floating wind turbines", *Developments in Maritime Transportation and Exploitation of Sea Resources*, Guedes Soares, C. and López Peña F. (Eds.). Francis & Taylor Group, London, UK, pp. 919-926.

5.2.172 Santos, F.P., Teixeira, A.P. and Guedes Soares, C. (2015), "An age-based preventive maintenance for offshore wind turbines", *Safety and Reliability: Methodology and Applications*, Nowakowski, T. Mlynczak M. Jodejko-Pietruczuk A. & Werbinska-Wojciechowska S., (Eds.), Taylor & Francis Group, Oxford, UK, pp. 1147-1155.

5.2.173 Grilo, J. and Dias, J.C.Q. (2015), "Performance evaluation using data envelopment analysis: The case of Portuguese general cargo terminals", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 37-44.

5.2.174 Santos, A.M.P., Mendes, J.P. and Guedes Soares, C. (2015), "A System Dynamics model for evaluating container terminal management policies", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 45-54.

5.2.175 Santos, T.A., Marques, M. and Guedes Soares, C. (2015), "Methodology and tools to design container terminals", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 55-68.

5.2.176 Carreira, A.M.P., Mendes, J.P. and Guedes Soares, C. (2015), "A generic maritime transportation network model", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 69-78.

5.2.177 Santos, A.M.P. and Guedes Soares, C. (2015), "Competition dynamics between the Hamburg-Le Havre and the Mediterranean port ranges", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 87-98.

5.2.178 Lima, D.B.V., Santos, T.A. and Guedes Soares, C. (2015), "Technical feasibility study of iron ore export using Douro River", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 99-108.

5.2.179 Merino da Silva, D. and Ventura, M. (2015), "Analysis of river/sea transportation of ore bulk using simulation process", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 109-118.

5.2.180 Merino da Silva, D. and Ventura, M. (2015), "Design optimization of a bulk carrier for river/sea ore transport", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 119-128.

5.2.181 Ferreira, A., Guedes Soares, C. and Salvador, R. (2015), "Features of the maritime clusters of the Atlantic Arc", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 141-148.

5.2.182 Salvador, R., Simões, A. and Guedes Soares, C. (2015), "Participative approaches in the Portuguese maritime cluster", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 149-154.

5.2.183 Simões, A., Guedes Soares, C. and Salvador, R. (2015), "Multipliers, linkages and influence fields among the sectors of the Portuguese maritime cluster", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 155-164.

5.2.184 Valadas Monteiro, P. and Salvador, R. (2015), "Main challenges facing the aquaculture sector: From a worldwide insight to a regional perspective", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 165-176.

5.2.185 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2015), "Simulation and analysis of maritime traffic in the Tagus River Estuary using AIS data", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 185-194.

5.2.186 Silveira, P., Teixeira, A.P. and Guedes Soares, C. (2015), "Assessment of ship collision estimation methods using AIS data", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 195-204.

5.2.187 Graziano, A., Teixeira, A.P. and Guedes Soares, C. (2015), "Application of TRACEr taxonomy for the codification of grounding and collision accidents", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 215-226.

5.2.188 Makouei, S.H., Teixeira, A.P. and Guedes Soares, C. (2015), "A study on the progressive collapse behaviour of a damaged hull girder", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 405-416.

5.2.189 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2015), "Fatigue reliability of an offshore wind turbine supporting structure accounting for inspection and repair", *Analysis and Design of Marine Structures*, Guedes Soares, C. & Shenoi R.A. (Eds.), Taylor & Francis, London, UK, pp.737-747.

5.2.190 Liu, B. and Guedes Soares, C. (2015), "Uncertainty analysis of the energy absorbed in beam and plate elements under impulsive loading", *Analysis and Design of Marine Structures*, Guedes Soares, C. & Shenoi R.A. (Eds.), Taylor & Francis, London, UK, pp.775-783.

5.2.191 Garbatov, Y. and Guedes Soares, C. (2015), "Risk-based maintenance of ageing ship structures", *Maintenance and Safety of Aging Structures - Structures and Infrastructure*, D.M. Frangopol and Y. Tsompanakis (Eds.), CRC Press, Taylor & Francis Group, Chapter 2, pp. 307-337.

5.2.192 Gaspar, B. and Guedes Soares, C. (2015), "System reliability analysis of a ship deck structure for buckling collapse and corrosion limit states", *Analysis and Design of Marine Structures*, Guedes Soares, C. & Shenoi R.A. (Eds.), Taylor & Francis, London, UK, pp.751-763.

5.2.193 Yan, X.P., Zhang, D., Wang, J. and Guedes Soares, C. (2015), "Maritime risk assessment in inland waterways: the past and the future", *Safety and Reliability of Complex Engineered Systems*, Podofilini et al (Eds.), Taylor & Francis Group, London, UK, pp. 3699-3706.

5.2.194 Gaspar, B., Teixeira, A.P. and Guedes Soares, C. (2015), "A study on a stopping criterion for active refinement algorithms in Kriging surrogate models", *Safety and Reliability of Complex Engineered Systems*, Podofilini et al (Eds.), Taylor & Francis Group, London, UK, pp. 1219-1227.

5.2.195 Sobral, J. and Guedes Soares, C. (2015), "Fire safety barrier availability analysis", *Safety and Reliability of Complex Engineered Systems*, Podofilini et al (Eds.), Taylor & Francis Group, London, UK, pp. 623-631.

5.2.196 Martins, E., Teixeira, A.P. and Guedes Soares, C. (2015), "Risk assessment of wave energy project feasibility", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 937-944.

5.2.197 Santos, F.P., Teixeira, A.P. and Guedes Soares, C. (2015), "Review of wind turbine accident and failure data", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. 953-959.

5.2.198 Santos, T.A. and Guedes Soares, C. (2015), "Economic assessment of LNG bunkering in the Portuguese coast", Guedes Soares, C. Dejhalla R. and Pavletiæ D., (Eds.), *Towards Green Marine Technology and Transport*, Taylor & Francis Group, London, UK, pp. 695-704.

5.2.199 Santos, T.A., Santos, A.M.P. and Guedes Soares, C. (2015) "Competition dynamics of ports in the Portuguese range", Guedes Soares, C. Dejhalla R. and Pavletiæ D., (Eds.), *Towards Green Marine Technology and Transport*, Taylor & Francis Group, London, UK, pp. 705-714.

5.2.200 Rodrigues, J.M., Teixeira, A.P. and Guedes Soares, C. (2015), "Assessment of still water bending moments for damaged hull girders", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 331-340.

5.2.201 Castro-Santos, L., Martins, E. and Guedes Soares, C. (2015), "Calculation of the Levelized Cost of Energy (LCOE) of a wave energy converter", *Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor & Francis Group, London, UK, pp. pp. 1003-1009.

5.2.202 Corak, M., Parunov, J. and Guedes Soares, C. (2015), "Short-term probabilistic combination of wave and whipping bending moments", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 647-654.

5.2.203 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2015), "Fatigue reliability assesment of an offshore supporting structure", *Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor & Francis Group, London, UK, pp. 671-680.

5.2.204 Rizzuto, E., Downes, J., Radon, M., Egorov, G., Kawamura, Y., O'Neill, S., Skjong, R. and Teixeira, A.P. (2015), "Design Principles and Criteria", *19th International Ship and Offshore Structures Congress (ISSC 2015)*, C. Guedes Soares & Y. Garbatov (Eds.), Elsevier, pp. 415-458.

5.2.204a Gaspar, B., Teixeira, A.P. and Guedes Soares, C. (2015), "Structural reliability analysis combining Kriging surrogate models with an adaptive trust region method", *Computational Stochastic Mechanics - Proc. of the 7th International Conference (CSM-7)*, G. Deodatis and P.D. Spanos, (Eds.), Research Publishing, Singapore, 286-297.

5.2.205 Filina-Dawidowicz, L., Santos, T.A. and Guedes Soares, C. (2016), "Refrigerated cargo handling: demand and requirements for Portuguese ports", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 61-72.

5.2.206 Gaspar, J.F., Teixeira, A.P., Santos, A.M.P., Guedes Soares, C., Golyshev, P. and Kähler, N. (2016), "Human Centred Design of a mooring winch control station", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 647-654.

5.2.207 Guia, J., Teixeira, A.P. and Guedes Soares, C. (2016), "Sensitivity analysis on the optimum hull girder safety level of a Suezmax tanker", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 823-830.

5.2.208 Zhang, J.F., Teixeira, A.P., Guedes Soares, C. and Yan, X.P. (2016), "Study on path planning strategies for search and rescue", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 937-942.

5.2.209 Sobral, J. and Guedes Soares, C. (2016), "Fire risk assessment for ship compartments", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 895-902.

5.2.210 Simões, A., Salvador. R. and Guedes Soares, C. (2016), "The impact of the 2008 financial crisis on the Portuguese maritime cluster", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1197-1203.

5.2.211 Silveira, P., Teixeira, A.P. and Guedes Soares, C. (2016), "Probabilistic modelling of evasive manoeuvring actions to avoid collisions", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 887-893.

5.2.212 Silva, L.M.R; Santos, A.M.P. and Guedes Soares, C. (2016), "A mixed integer formulation for the offshore rig scheduling problem", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1005-1011.

5.2.213 Silva, L.M.R. and Guedes Soares, C. (2016), "Study of the risk to export crude oil in pipeline systems", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 1013-1018.

5.2.214 Santos, A.M.P. and Guedes Soares, C. (2016), "An offshore oil industry inventory routing problem with weather windows", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 997-1004.

5.2.215 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2016), "Assessment and characterization of near ship collision scenarios off the coast of Portugal", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 871-878.

5.2.216 Mainardi, A. and Santos, T.A. (2016), "Forecasting cargo throughput in Portuguese Ports using causal methods", *Maritime Technology and Engineering 3*, Guedes Soares, C. & Santos T. A., (Eds.), Taylor & Francis Group, London, UK, pp. 81-89.

5.2.217 Castro-Santos, L. and Guedes Soares, C. (2016), "Economic feasibility of floating offshore wave farms in Galicia", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 837-842.

5.2.218 Pego, A., Marques, M., Salvador, R., Guedes Soares, C. and Monteiro, A. (2016), "The potential offshore energy cluster in Portugal", *Progress in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 867-873.

5.2.219 Sobral, J. and Guedes Soares, C. (2016), "Repairable items inventory optimization based on maintenance data and risk criteria", *Risk, Reliability and Safety Innovating Theory and Practice*, Lelie Walls, Matthew Revie & Tim Bedford, (Eds.), CRC Press - Taylor & Francis Group, London, UK, pp. 1079-1086.

5.2.220 Gonçalves, P., Sobral, J. and Ferreira, L.A. (2016), "Development of unmanned aerial vehicles maintenance strategy under an asset management framework", *Risk, Reliability and Safety Innovating Theory and Practice*, Lelie Walls, Matthew Revie & Tim Bedford, (Eds.), CRC Press - Taylor & Francis Group, London, UK, pp. 1031-1037.

5.2.221 Cavallini, S., D'Onofrio, F., Ferreira, P., Simões, A. and Garcia, N. (2016), "A comprehensive approach for security assessment in transport", *Critical Information Infrastructures Security*, Christos G., Panayiotou C., Ellinas G., Kyriakides E. & Polycarpou M. (Eds.), Springer Verlag, pp. 37-42.

5.2.222 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2017), "Analysis of FPSO accident and incident data", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 773-782.

5.2.223 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2017), "System reliability of a jacket offshore wind turbine subjected to fatigue", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 939-950.

5.2.224 Yin, QL., Guedes Soares, C. and Dong, S. (2017), "Characteristics of *p-y* curves for monopile offshore wind turbines on clay soil", *Progress in the Analysis and Design of Marine Structures*, Guedes Soares, C. & Garbatov Y. (Eds.), Taylor & Francis Group, London, UK, pp. 905-912.

5.2.225 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2018), "Analysis of accidental fluid release scenarios in FPSOs", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1121-1131.

5.2.226 Carreira, A.M.P. and Guedes Soares, C. (2018), "Liner service operational differentiation in container port terminals", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 129-136.

5.2.227 Garbatov, Y., Dong, Y., Rorup, J., Vhanmane, S. and Villavicencio, R. (2018), "Fatigue reliability of butt-welded joints based on spectral fatigue damage assessment", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 611-616.

5.2.228 Haugen, S., Ventikos, N.P., Teixeira, A.P. and Montewka, J. (2018), "Trends and needs for research in maritime risk", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 313-321.

5.2.229 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2018), "A model for predicting ship destination routes based on AIS data", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 257-264.

5.2.230 Santos, A.M.P., Silva, L.M.R., Santos, T.A. and Guedes Soares, C. (2018), "A simulation approach applied to the optimization of offshore crew transportation problems", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1133-1140.

5.2.231 Santos, T.A. and Guedes Soares, C. (2018), "Economic feasibility of an autonomous container ship", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 861-870.

5.2.232 Santos, T.A. and Guedes Soares, C. (2018), "Methodology for the identification of the potential hinterland of container terminals", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 157-166.

5.2.233 Silva, L.M.R. and Guedes Soares, C. (2018), "Helicopter fleet size and mixed vehicle routing problem for crew exchange on an offshore oil and gas field", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 1157-1164.

5.2.234 Stoev, L., Georgiev, P. and Garbatov, Y. (2018), "Offshore sulfide power plant for the Black Sea", *Maritime Transportation and Harvesting of Sea Resources*, Guedes Soares, C. & Teixeira A.P. (Eds.), Taylor & Francis Group, London, UK, pp. 31-36.

5.2.235 Zeng, Y., Zhang, J.F., Teixeira, A.P. and Guedes Soares, C. (2018), "Role assignment and conflict identification for the encounter ships under COLREGs", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor and Francis, London, UK, pp. 137-146.

5.2.236 Costa, B., Jacinto, C., Teixeira, A.P. and Guedes Soares, C. (2018), "Causal analysis of accidents at work in a shipyard complemented with Bayesian Nets modeling", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor and Francis, London, UK, pp. 421-430.

5.2.237 Garbatov, Y. and Sisci, F. (2018), "Sensitivity analysis of risk-based conceptual ship design", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor and Francis, London, UK, pp. 499-510.

5.2.238 Abdelmalek, M. and Guedes Soares, C. (2018), "Risk assessment of subsea oil and gas production systems at the concept selection phase", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor and Francis, London, UK, pp. 511-524.

5.2.239 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2018), "Availability assessment of a power plant working on Allam cycle", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor and Francis, London, UK, pp. 525-536.

5.2.240 Santos, T.A. and Guedes Soares, C. (2018), "Methodology for estimating technical characteristics of container ships from AIS data", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor and Francis, London, UK, pp. 101-110.

5.2.241 Botter, R.C., Santos, T.A. and Guedes Soares, C. (2018), "Characterizing container ship traffic along the Portuguese coast using Big Data", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor and Francis, London, UK, pp. 93-100.

5.2.242 Santos, T.A., Guedes Soares, C. and Botter, R.C. (2018), "Charaterizing the operation of a roll-on roll-off short sea service", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor and Francis, London, UK, pp. 77-88.

5.2.243 Simões, A., Salvador, R. and Guedes Soares, C. (2018), "Evaluation of the Portuguese ocean economy using the satellite account for the sea", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor and Francis, London, UK, pp. 63-68.

5.2.244 Mathias, N.A.S., Santos, T.A. and Guedes Soares, C. (2018), "Analysis of a new container terminal using a simulation approach", Guedes Soares, C. & Santos T.A., (Eds.), *Progress in Maritime Technology and Engineering*, Taylor and Francis, London, UK, pp. 43-52.

5.2.244a Duan, M.G., Chai, SH., Pasqualino, I.P., Sun, L.P., Myllerup, C., Mavrakos, S., Samanta, A., Kavanagh, K., Ozaki, M., Saevik, S., Teixeira, A.P., Min Low, Y., Seo, J.K., Schreier, S., Swart, P. and Song, H. (2018), "Committee V.8 - Report for Subsea Technology", *20th International Ship and Offshore Structures Congress (ISSC 2018)*, Kaminski, M. & Rigo P. (Eds.), IOS Press Ebooks, pp. Vol 2 - 461-523 and Vol 3 - 277-286.

5.2.245 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2019) "Reliability prediction of bearings of an offshore wind turbine gearbox", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 779-787.

5.2.246 Kang, J.C., Guedes Soares, C., Sun, L.P., Lu, Y. and Sobral, J. (2019) "An opportunistic condition-based maintenance policy for offshore wind farm", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis, London, UK, pp. 753-760.

5.2.247 Sobral, J., Kang, J.C. and Guedes Soares, C. (2019) "Weighting the influencing factors on offshore wind farms availability", *Advances in Renewable Energies Offshore*, Guedes Soares, C., (Ed.), Taylor & Francis Group, London, UK, pp. 761-769.

5.2.248 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2020), "Collision probability assessment based on uncertainty prediction of ship trajectories", *Developments in the Collision and Grounding of Ships and Offshore Structures*, C. Guedes Soares (Ed.), Taylor & Francis Group, London, pp. 283-290.

5.2.249 Yuan, X.L., Zhang, D., Zhang, J.F., Zhang, M.Y. and Guedes Soares, C. (2020), "A novel collision risk awareness framework for ships in real-time operating conditions", *Developments in the Collision and Grounding of Ships and Offshore Structures*, C. Guedes Soares (Ed.), Taylor & Francis Group, London, pp. 337-343.

5.2.250 Santos, T.A. and Guedes Soares, C. (2020), "Assessment of transportation demand on alternative short-sea shipping services considering external costs", *Maritime Supply Chains*, Vanelslander, T. & Sys, C. (Eds.), Elsevier, pp. 13-45.

5.2.251 Ventura, M., Santos, T.A. and Guedes Soares, C. (2020), "Ro-Ro ships and dedicated short sea shipping terminals", *Short Sea Shipping in the Age of Sustainable Development and Information Technology*, Santos, T.A. & Guedes Soares C. (Eds.), Routledge, Taylor and Francis Group, London, UK, pp. 22-57.

5.2.252 Santos, T.A. and Guedes Soares, C. (2020), "Ro-Ro ship and fleet sizing in intermodal transportation", *Short Sea Shipping in the Age of Sustainable Development and Information Technology*, Santos, T.A. & Guedes Soares C. (Eds.), Routledge, Taylor and Francis Group, London, UK, pp. 61-88.

5.2.253 Santos, T.A., Ramalho, M.M. and Guedes Soares, C. (2020), "Sustainbility in short sea shipping-based intermodal transport chains", *Short Sea Shipping in the Age of Sustainable Development and Information Technology*, Santos, T.A. & Guedes Soares C. (Eds.), Routledge, Taylor and Francis Group, London, UK, pp. 89-115.

5.2.254 Santos, T.A., Escabelado, J., Botter, R.C. and Guedes Soares, C. (2020), "Simulating Ro-Ro operations in the context of supply chains", *Short Sea Shipping in the Age of Sustainable Development and Information Technology*, Santos, T.A. & Guedes Soares C. (Eds.), Routledge, Taylor and Francis Group, London, UK, pp. 116-140.

5.2.255 Santos, T.A. and Guedes Soares, C. (2020), "Short sea shippking in the age of information and communications technology", *Short Sea Shipping in the Age of Sustainable Development and Information Technology*, Santos, T.A. & Guedes Soares C. (Eds.), Routledge, Taylor and Francis Group, London, UK, pp. 277-296.

5.2.256 Valadas Monteiro, P. and Noronha, T. (2020), "Sustainable development of fisheries communities: The role of community-led local development policies", *Regional Intelligence - Spatial Analysis and Anthropogenic Regional Challenges in the Digital Age*, Eric Vaz (Ed.), Springer, pp. 49-110.

5.2.257 Ramos, S., Diaz, H.M., Lavidas, G. and Guedes Soares, C. (2021), "Identifying compatible locations for wave energy exploration with different wave energy devices in Madeira", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 111-122.

5.2.258 Teixeira, A.P. and Guedes Soares, C. (2021), "Semi-empirical based response surface approach for reliability evaluation of steel plates with random fields of corrosion", *18th International Probabilistic Workshop (IPW2020), Lecture Notes in Civil Engineering 153*, Matos, J. C. et al., (Eds.), Springer Nature Switzerland AG, pp. 715-732.

5.2.259 Diaz, H.M. and Guedes Soares, C. (2021), "Failure Mode Identification and Effect Analysis of Offshore Wind Turbines and Substations", *Developments in Renewable Energies Offshore*, Guedes Soares, C. (Ed.), Taylor and Francis, London, UK, pp. 444-460.

5.2.260 Santos, T.A., Martins, P. and Guedes Soares, C. (2021), "Characterization of the cruise ship fleet calling in the port of Lisbon", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 91-100.

5.2.261 Cai, M.Y., Zhang, J.F., Wu, B., Tian, W.L. and Guedes Soares, C. (2021), "Behavior feature analysis on passenger ferry of Jiangsu Section in the Yangtze River based on AIS data", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 129-138.

5.2.262 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2021), "Spatial distribution of ship near collisions clusters off the coast of Portugal using AIS data", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 175-184.

5.2.263 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2021), "Spatial-temporal analysis of ship traffic in Azores based on AIS data", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 185-192.

5.2.264 Abdelmalek, M. and Guedes Soares, C. (2021), "Performance-based leading risk indicators of safety barriers on liquefied natural gas carriers", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 211-220.

5.2.265 Antão, P., Teixeira, A.P. and Guedes Soares, C. (2021), "Statistical characterization of risk influencing factors in ship collision accidents", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 221-230.

5.2.266 Li. H. and Guedes Soares, C. (2021), "A FMEA for a floating offshore wind turbine considering costs of failures", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 239-244.

5.2.267 Sobral, J. and Guedes Soares, C. (2021), "Reliability analysis of critical systems installed in ships based on degradation mechanisms", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 261-268.

5.2.268 Ramalho, M.M., Santos, T.A. and Guedes Soares, C. (2021), "External costs in short sea shipping based intermodal transport chains", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 63-72.

5.2.269 Santos, T.A., Escabelado, J., Martins, P. and Guedes Soares, C. (2021), "Short sea shipping routes hinterland delimitation in the European Atlantic Area", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 81-90.

5.2.270 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2021), "Reliability assessment of corroded pipelines with different burst strength models", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 687-696.

5.2.271 Kaveh, M. and Guedes Soares, C. (2021), "Structural integrity of offshore pipelines considering buckling and fracture limit-states", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 697-704.

5.2.272 Damyanliev, T., Georgiev, P., Denev, Y., Naydenov, L., Garbatov, Y. and Atanasova, I. (2021), "Short sea shipping and shipbuilding capacity of the East Mediterranean and Black Sea regions", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 1, pp. 749-758.

5.2.273 Ferrari, V., Sutulo, S., Teixeira, A.P. and Guedes Soares, C. (2021), "Reliability analysis of crabbing manoeuvres", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 177-186.

5.2.274 Ramos, S., Diaz, H.M., Silva, D. and Guedes Soares, C. (2021), "Levelized Cost of Energy of offshore floating wind turbines in different case scenarios of the Madeira Islands", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol 2, pp. 627-638.

5.2.275 Silva, L.M.R. and Guedes Soares, C. (2021), "Statistical analysis of the oil production profile of Campos' basin in Brazil", *Developments in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A., (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 775-784.

5.2.276 Ferreira, P. and Praetorius G. (2021), "Assessing the Impacts of Ship Automation Using the Functional Resonance Analysis Method", *Advancing Resilient Performance*, Nemeth C. and Hollnagel E. (Eds.), Springer, pp. 97-113.

5.2.277 Sobral, J., Gaspar, D. and Almeida, N. (2021), "Maintenance of Technical Installations in Buildings Based on Asset Life Cycle Analysis", *Sustainability and Automation in Smart Constructions, Advances in Science, Technology & Innovation*, H. Rodrigues, F. Gaspar P. Fernandes e A. Mateus, (Eds.), Springer Nature Switzerland, Switzerland, pp. 387-392.

5.2.278 Santos, T.A. (2022), "Greening the logistics of container transportation to port terminals using inland waterways", *Sustainable Development and Innovations in Marine Technologies*, Ergin, S. & Guedes Soares C. (Eds.), Taylor & Francis, London, UK, pp. 353-361.

5.2.279 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2022), "Local buckling reliability assessment of corroded subsea pipelines under combined loads", *Developments in the Analysis and Design of Marine Structures*, Amdahl, J. & Guedes Soares C. (Eds.), Taylor & Francis, London, UK, pp. 487-497.

5.2.280 Ferreira P. (2022), "Organizational Learning (*in Portuguese*)", *Nova Visao de Segurança*, Gomes P., Menezes G., Ribeiro H. (Eds.), NELPA L. Dower Edições Jurídicas Lda., pp. 31-36.

5.2.281 Horn, A M., Rahman, T., Pasqualino, I., Duan, M., Kang, Z., Andersen, M.R., Konno, Y., Shim, C., Teixeira, A.P., Oterkus, S., Thornton, B. and Mishra, B. (2022), "Committee V.8: Subsea Technology", *21st International Ship and Offshore Structures Congress (ISSC 2022)*, Wang, X. & Pegg N. (Eds.), IOS Press Ebooks, pp. 503-581.

5.2.282 Gaspar, D., Almeida, N., Sobral, J. and Reguenga, D. (2022), "Maintenance in asset management (*in Portuguese*)", *Manual de Manutenção em Edificações*, Flores-Colen, I., Ferreira Gomide, T.L., della Flora, S.M., (Eds.), pp. 155-173.

5.2.283 Sobral, J. and Coelho, J. (2022), "Development of a model for the evaluation of total productive maintenance in an organization (*in* Portuguese)", *Fundamentos e Perspetivas de Inovação na Gestão de Ativos*, Marques de Almeida, N., Torres Farinha, J., Raposo, H., Gaspar, D. & Pais, E., (Eds.), 26-27 May, Coimbra, Portugal, pp. 69.

5.2.284 Roque, A. and Sobral, J. (2022), "Asset management through the technology of movement amplification (*in* Portuguese)", *Fundamentos e Perspetivas de Inovação na Gestão de Ativos*, Marques de Almeida, N., Torres Farinha, J., Raposo, H., Gaspar, D. & Pais, E., (Eds.), 26-27 May, Coimbra, Portugal, pp. 58.

5.2.285 Sobral, J. and Tancredo, F. (2022), "Identification of an organization's maturity level of physical assets management (*in* Portuguese)", *Fundamentos e Perspetivas de Inovação na Gestão de Ativos*, Marques de Almeida, N., Torres Farinha, J., Raposo, H., Gaspar, D. & Pais, E., (Eds.), 26-27 May, Coimbra, Portugal, pp. 32.

5.2.286 Sobral, J. and Roque, A. (2022), "The influence of tribological characteristics in the life of sliding bearings and wheel bearings (*in* Portuguese)", *Fundamentos e Perspetivas de Inovação na Gestão de Ativos*, Marques de Almeida, N., Torres Farinha, J., Raposo, H., Gaspar, D. & Pais, E., (Eds.), 26-27 May, Coimbra, Portugal, pp. 82.

5.2.287 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2022), "Structural design and optimization of vertical subsea separator for deep water applications", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 41-52.

5.2.288 Karatug, C., Arslanoglu, Y. and Guedes Soares, C. (2022), "Maintenance strategies for machinery systems of autonomous ships", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 517-524.

5.2.289 Madureira, R., Centeno, R. and Teixeira, A. P. (2022), "Analysis of operational data of a ship fuel optimization system", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 1, pp. 535-544.

5.2.290 Abreu, H., Cardoso, V. and Santos, T.A. (2022), "The effects of operational and environmental conditions in cruise ship emissions in port areas", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 3-12.

5.2.291 Garbatov, Y. and Georgiev, P. (2022), "Short sea shipping gas emissions and dispersion", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 35-43.

5.2.292 Santos, T.A., Fonseca, M.A., Martins, P. and Guedes Soares, C. (2022), "Geographical scope of competitiveness of short sea shipping and freight railways in the Atlantic Corridor", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 97-112.

5.2.293 Lee, B., Silveira, P.A.M., Loureiro, H. and Teixeira, A.P. (2022), "A framework for characterizing the marine traffic off the continental coast of Portugal using historical AIS data", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 113-120.

5.2.294 Lotovskyi, E., Teixeira, A.P., Silveira, P.A.M. and Torrao, E. (2022), "Preliminary analysis of the fishing activity in Portugal", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 121-128.

5.2.295 Zhang, H., Zhang, J.F., Shi, T. and Guedes Soares, C. (2022), "A dynamic Rapid-exploring Random Tree algorithm for collision avoidance for multi-ship encounter situations under COLREGs", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 161-172.

5.2.296 Abdelmalek, M. and Guedes Soares, C. (2022), "A review of failure causes and critical factors of maritime LNG leaks", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 173-184.

5.2.297 Lee, B. and Teixeira, A.P. (2022), "Simulation of search and rescue operations off the continental coast of Portugal", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 213-222.

5.2.298 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2022), "Identification of ship trajectories when approaching and berthing in Sines port based on AIS data", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 135-142.

5.2.299 Rong, H., Teixeira, A. P. and Guedes Soares, C. (2022), "Ship abnormal behaviour detection off the continental coast of Portugal", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 143-150.

5.2.300 Silveira, P.A.M., Teixeira, A.P. and Guedes Soares, C. (2022), "Characterisation of ship routes off the continental coast of Portugal using the Dijkstra algorithm", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 151-160.

5.2.301 Ramos, S., Diaz, H.M. and Guedes Soares, C. (2022), "Potential opportunities of multi-use blue economy concepts in Europe", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 461-475.

5.2.302 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2022), "Analysis of the basic causes of FPSO fluid releases", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 529-536.

5.2.303 Saide, J.V. and Teixeira, A.P. (2022), "Stochastic characterization of a petroleum reservoir", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 537-544.

5.2.304 Silva, L.M.R. and Guedes Soares, C. (2022), "A stochastic programming model for designing an offshore production system", *Trends in Maritime Technology and Engineering*, Guedes Soares, C. & Santos T.A. (Eds.), Taylor and Francis, London, UK, Vol. 2, pp. 545-552.

5.2.305 Vicente, L., Lomelino, P., Carreira, F., Campos, F.M., Mendes, M.J.G.C. and Calado, J.M.F. (2022), "A photorealistic digital twin for a tank truck washing robotic system", *Collaborative Networks in Digitalization and Society 5.0 (PRO-VE 2022)*, L.M. Camarinha-Matos, A.O. Xavier Boucher & A. Luis Osório (Ed.), pp. 57-66.

5.3 Conference Proceedings

5.3.1 Guedes Soares, C. and Faulkner, D. (1987), "Probabilistic Modelling of the Effect of Initial Imperfections on the Compressive Strength of Rectangular Plates", *Proceedings of the Third International Symposium on Practical Design of Ships and Mobile Units (PRADS)*, Trondheim, Vol. 2, pp. 783-795.

5.3.2 Moan, T. and Guedes Soares, C. (1988), "Design Philosophy - Report of the Committee IV.1", *Proceedings of the 10th International Ship and Offshore Structures Congress*, Petersen, P. T. (Eds.) Vol. I, pp. 583-662.

5.3.3 Guedes Soares, C. (1990), "Environmental Impact of Maritime Accidents", *Proceedings of the International seminar on transport systems and the environment* (in Portuguese), Instituto Superior Técnico, Lisbon, Portugal.

5.3.4 Guedes Soares, C. and Guedes da Silva, A. (1991), "Reliability of Unstiffened Plate Elements under In-Plane Combined Loading", *Proceedings of the Offshore Mechanics and Arctic Engineering Conference, ASME, Stavanger*, Vol. 2, pp. 265-276.

5.3.5 Moan, T., Guedes Soares, C. et al, (1991), "Design Philosophy (Report of Committee IV.1)", *Proceedings of the 11th International Ship and Offshore Structures Congress*, Hsu, T.S. (Ed.) Wuxi, China, pp. 575-661.

5.3.6 Guedes Soares, C. and Kmiecik, M. (1992), "Simulation of the Ultimate Compressive Strength of un Unstiffened Rectangular Plates", *Proceedings of the Charles Smith Memorial Conference*, Dunfermline.

5.3.7 Guedes Soares, C. (1992), "Risk Assessment in Marine Transportation", *Proceedings of the International Conference on Risk Assessment Health and Safety Executive*, London, Vol. 2, pp. 374-390.

5.3.8 Guedes Soares, C. and Garbatov, Y. (1993), "Fatigue Reliability of the Ship Hull Girder", *Proceedings of the VI Congress International Maritime Association of Mediterranean*, Varna, Bulgaria, pp. 121-134.

5.3.9 Pittaluga, A., Guedes Soares, C. et al (1994), "Design Philosophy", *Proceedings of the 12th International Ship and Offshore Structures Congress*, Jeffrey N.E. and Kendrick, A.M. (Eds.), Canada, Vol. 1, pp. 525-591.

5.3.10 Guedes Soares, C. (1994), "Reliability of Components in Composite Materials", *Proceedings of the 9th International Conference on Reliability & Maintainability (ESREL' 94)*, La Baule, France, pp. 377-388.

5.3.11 Guedes Soares, C., Vinnem, J.E. and Faber, M. (1995), "On the Integration of Quantified Risk Assessment and Structural Reliability in the Offshore Industry*", Proceedings of the European Safety and Reliability Conference (ESREL'95)*, Watson, I.A. and Cottam, M.P. (Eds.), Chameleon Press Ltd, London, Vol. I, pp. 49-68.

5.3.12 Guedes Soares, C. and Garbatov, Y. (1996), "Fatigue Reliability of Containership Hull Girders Considering Maintenance Actions", *Proceedings of the First International Conference on Marine Industry (MARIND'96)*, Varna, Vol. I, pp. 151-166.

5.3.13 Casella, G., Dogliani, M. and Guedes Soares, C. (1996), "Reliability Based Design of the Primary Structure of Oil Tankers", *Proceedings of the 15th International conference on Offshore Mechanics and Arctic Engineering (OMAE'96),* Guedes Soares, C. et al (Eds.), ASME, New York, Vol. II, pp. 217-224.

5.3.14 Guedes Soares, C. and Garbatov, Y. (1996), "Influence of Inspection and Repair on the Fatigue Reliability of Oil Tankers", *Proceedings of the 15th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'96),* Guedes Soares, C. et al (Eds.), ASME, New York, Vol. II, pp. 245-254.

5.3.15 Ferreira, S.A. and Guedes Soares, C. (1997), "Probabilistic Assessment of the Expected Oil Outflow in Four Tankers", *Proceedings of the 6th International Conference on Stability on Ships and Ocean Vehicles (STABS'97),* Bogdanov, P.A. (Ed.), Varna, Vol. II, pp. 211-221.

5.3.16 Garbatov, Y. and Guedes Soares, C., (1997), "Fatigue Reliability of Maintained Welded Joints in the Side Shell of Tankers", *Proceedings of the 16th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'97),* Guedes Soares, C. et al (Eds.), ASME, New York, Vol. II, pp. 219-228.

5.3.17 Amdahl, J., Hu, C., Prince-Wright, R., Reissman, R.C., Shyu, R.J., Yoshida, K. and Teixeira, A.P. (1997), "Structural Design against Fire and Blast (Specialist Panel V.2)", *Proceedings of the13th International Ship and Offshore Structures Congress (ISSC)*, Trondheim, Vol. 2, pp. 43-75.

5.3.18 Guedes Soares, C. and Garbatov, Y. (1997), "Reliability of Plate Element Subjected to Non-Linear Corrosion and Compressive Loads", *Colloquium of the European Mechanics Society, EUROMECH*

372, Reliability in Non-Linear Structural Mechanics, Ditlevsen, O.D. and Mitteau, J.C. (Eds.), pp. 1-15.

5.3.19 Guedes Soares, C. and Garbatov, Y. (1998), "Minimum Fatigue Reliability of Maintained Ship Structures", *8th IFIP WG 7.5 Working Conference*, Krakov, Poland, 11-13 May, pp. 153-163.

5.3.20 Guedes Soares, C. and Garbatov, Y. (1998), "Reliability Based Fatigue Design of Maintained Welded Joints in the Side Shell of Tankers", *Proceedings of the Fatigue Design '98 Conference,* Vol.1, pp. 25-38.

5.3.21 Guedes Soares, C. (1999), "Time Varying Reliability of Structures with Degrading Performance", *Proceedings of Safety and Reliability National Conference (KONBIN'99)*, Zakopane, Poland, 22-25 November, Vol 3, pp. 189.

5.3.22 Kristiansen, S., Koster, E., Schmidt, W.F., Olofsson, M., Guedes Soares, C. and Caridis, P. (1999), "A New Methodology for Marine Casualty Analysis accounting for Human and Organisational Factors", *Proceedings of the International Conference on Learning from Marine Incidents*, London, 20-21 October, paper 14, pp. 1-14.

5.3.23 Guedes Soares, C. (2000), "Dealing with Strength Degradation in Structural Reliability", *Proceedings of the Workshop "Risk Based Design of Civil Structures"*, Delft, 11 January, pp. 23-41.

5.3.24 Garbatov, Y., Rudan, S. and Guedes Soares, C. (2000), "Fatigue Strength Assessment of Ship Knuckle Details", *Proceedings of the IX International Maritime Association of Mediterranean Congress (IMAM´00)*, Cassella, P., Scamardella, A. and Festinese, G. (Eds.), Ischia, Italy, 2-6 April, pp. 103-110.

5.3.25 Ferreira, S.A., Winckle, I.E. and Guedes Soares, C. (2000), "Probabilistic Assessment of the Performance of Double-Hull Tankers with respect to Oil Outflow", *Proceedings of the IX International Maritime Association of Mediterranean Congress (IMAM´00),* Cassella, P., Scamardella, A. and Festinese, G. (Eds.), Ischia, Italy, 2-6 April, pp. 47-55.

5.3.26 Smiljko, R., Garbatov, Y. and Guedes Soares, C. (2000), "Finite Element Study of Stress Concentration Factors in Ship Knuckle Details", *Proceedings of the 3rd International Congress of Croatian Society of Mechanics,* Dubrovnik, Croatia, 28-30 September, pp. 367-374.

5.3.27 Guedes Soares, C. and Garbatov, Y. (2000), "Reliability of Maintained Marine Structures", *Proceedings of the Fifth International Conference on Marine Science and Technology (Black Sea´00),* Varna, Bulgaria, 9-11 November, pp. NA-II-7.

5.3.28 Garbatov, Y. and Guedes Soares, C. (2001), "Bayesian Updating of the Reliability of Maintained Floating Structures", *Proceedings of the 20th International Conference on Offshore Mechanics and Arctic Engineering (OMAE'01),* 3-8 June, Rio de Janeiro, Brasil, ASME, New York, Paper OMAE2001/S&R-2176.

5.3.29 Barata, J. and Guedes Soares, C. (2001), "Evaluating the Availability of Maintained Systems with Monte Carlo Simulation", *Proceedings of the Safety and Reliability International Conference (KONBIN'01)*, 22-25 May, Szczyrk, Poland, pp. 9-17.

5.3.30 Guedes Soares, C. (2001), "Time Varying Reliability of Structures with Degrading Performance", *Proceedings Safety and Reliability International Conference (KONBIN'01)*, 22-25 May, Szczyrk, Poland, pp. 111-130.

5.3.31 Guedes Soares, C., Bitner-Gregersen, E. and Antão, P. (2001), "Analysis of the Frequency of Ship Accidents Under Severe North Atlantic Weather Conditions", *Proceedings of the RINA Conference on Design and Operation for Abnormal Conditions II*, 6-7 November, London, UK, pp. 221-230.

5.3.32 Guedes Soares, C., Garbatov, Y. and Teixeira, A.P. (2001), "Safety and Reliability Considerations in the Ship Structural Design", *1st International Congress of Seas and Oceans – Seas and Oceans 2001*, 18-22 September, Szczecin–Miedzyzdroje, Poland, pp. 101-113.

5.3.33 Teixeira, A.P. and Guedes Soares, C. (2001), "Reliability of Plates subjected to Thermic Loads" *(in Portuguese), Proceedings of the III Meeting of Metal and Mixed Structures*, 6-7 December, Aveiro, Portugal, pp. 459-468.

5.3.34 Garbatov, Y. and Guedes Soares, C. (2001), "Fatigue Reliability Analysis of a Corner of the Hatchway of a Bulk Carrier", *Proceedings of the III Meeting of Metal and Mixed Structures*, 6-December, Aveiro, Portugal, pp. 553-562.

5.3.35 Teixeira, A.P. and Guedes Soares, C. (2001), "Assessment of Partial Safety Factors for Tankers" *Proceedings of the JCSS Workshop,* Zurick, Switzerland (in electronic form).

5.3.36 Barata, J., Guedes Soares, C., Zio, E. and Marseguerra, M. (2001), "Modelling Components' Degradation Processes by Monte Carlo Simulation", *Proceedings of the European Safety and Reliability International Conference (ESREL'01)*, 16-20 September, Torino, Italy, Vol. 2, pp. 879-886.

5.3.37 Garbatov, Y., Rudan, S. and Guedes Soares, C. (2002), "Application of the Spectral Approach for Fatigue Analysis of Marine Structural Details", *Proceedings of the 10th International Congress of the International Maritime Association of the Mediterranean* (*IMAM´02*), 13-17 May, Rethymno, Crete-Hellas.

5.3.38 Ferreira, S.A. and Guedes Soares, C. (2002), "Probabilistic Approach to Tanker Subdivision based on Environmental Considerations", *Proceedings of the 10th International Congress of the International Maritime Association of the Mediterranean* (*IMAM´02*), 13-17 May, Rethymno, Crete-Hellas.

5.3.39 Guedes Soares, C. and Garbatov, Y. (2002), "Reliability of Deteriorated Steel Structures", *AMAS Course on Reliability-Based Optimization (RBO'02)*, 23-25 September, Warsaw, Poland.

5.3.40 Guedes Soares, C., Teixeira, A.P. and Bitner-Gregersen, E. (2003), "Applications of Safety and Reliability Approaches in the Maritime Transportation Sector", *Proceedings of the 3rd Safety and Reliability International Conference (KONBIN'03)*, 26-29 May, Gdynia, Poland.

5.3.41 Guedes Soares, C., Trbojevic, V.M., Pedrali, M., Faber, M.H., Rackwitz, R., Bucher, C., Smedley, P., Leira B. and Shetty, N.K. (2003), "Safety and Reliability of Industrial Products, Systems and Structures", *Proceedings of the 3rd Safety and Reliability International Conference (KONBIN'03)*, 26-29 May, Gdynia, Poland.

5.3.42 Guedes Soares, C., Teixeira, A.P. and Antão, P. (2004), "Safety and Reliability Considerations in Different Industrial Sectors", *Proceedings of the IMS International Forum 2004*, 17-19 May, Villa Erba, Cernobbio, Italy, pp. 15-22.

5.3.43 Garbatov, Y., Teixeira, A.P. and Guedes Soares, C. (2004), "Fatigue Reliability Assessment of a Converted FPSO Hull", *Proceedings of the OMAE Specialty Conference on Integrity of Floating Production, Storage & Offloading (*FPSO) Systems, ASME, New York, Paper OMAE-FPSO'04-0035.

5.3.44 Garbatov, Y., Vodkadzhiev, I. and Guedes Soares, C. (2004), "Corrosion Wastage Assessment of Deck Structures of Bulk Carriers", *Proceedings of the 7th International Conference on Marine Science and Technology (BlackSea´04)*, 7-9 October, Varna, Bulgaria, pp. 24-32.

5.3.45 Panayotova, M., Garbatov, Y. and Guedes Soares, C. (2004), "Factors Influencing Corrosion of Steel Structural Elements Immersed in Seawater", *Proceedings of the 7th International Conference on Marine Science and Technology (BlackSea´04)*, 7-9 October, Varna, Bulgaria, pp. 280-286.

5.3.46 Panayotova, M., Garbatov, Y. and Guedes Soares, C. (2004), "Factors Influencing Atmospheric Corrosion and Corrosion in Closed Spaces of Marine Steel Structural", *Proceedings of the 7th International Conference on Marine Science and Technology (BlackSea´04)*, 7-9 October, Varna, Bulgaria, pp. 286-292.

5.3.47 Guedes Soares, C. (2004), "Structural reliability of ships and floating platforms (FPSO)", *Proceedings of the 20th National Congress on Maritime Transport, Shipbuilding and Offshore (SOBENA'04)*, 8-12 November, Rio de Janeiro, Brasil, pp. 1-16.

5.3.48 Pardi, L., Shetty, N. and Guedes Soares, C. (2004), "Risk and Reliability in Surface Transportation", *Proceedings of the 2nd International Conference on Bridge Maintenance, Safety and Management (IABMAS'04)*, 18-22 October, Kyoto, Japan.

5.3.49 Garbatov, Y., Guedes Soares, C. and Wang, G. (2005), "Non-Linear Time Dependent Corrosion Wastage of Deck Plates of Ballast and Cargo Tanks of Tankers", *Proceedings of the 24th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´05)*, 12-17 June, Halkidiki, Greece, ASME, New York, Paper OMAE2005-67579.

5.3.50 Kolev, P., Tsenkov, M., Georgiev, P. and Guedes Soares, C. (2005), "Upgrade of Existing Bulk Carriers to Meet the New Requirements", *Proceedings of the International Conference "Design and Operation of Bulk Carriers" (RINA)*, 18 - 19 October, London, UK, pp. 87-93.

5.3.51 Pardi, L., Onoufriou, T., Shetty, N. and Guedes Soares, C. (2005), "Application of Risk and Reliability to the Management of Bridges" *Proceedings of the Fifth International Conference on Bridge Management*, 11-13April, Guildford, UK.

5.3.52 Guedes Soares, C. and Parunov, J. (2006), "Structural Reliability of a Suezmax Oil Tanker Designed According to New Joint Tanker Project Rules", *Proceedings of the 25th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´06)*, 4-9 June, Hamburg, Germany, ASME, New York, Paper OMAE2006-92650.

5.3.53 Garbatov, Y., Guedes Soares, C., Ok, D., Pu, Y., Rizzo, C.M., Rizzuto, E., Rouhan, A. and Parmentier, G. (2006), "Modelling Strength Degradation Phenomena and Inspections used for Reliability Assessment based on Maintenance Planning", *Proceedings of the 25th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´06)*, 4-9 June, Hamburg, Germany, ASME, New York, Paper OMAE2006-92090.

5.3.54 Santos, T.A. and Guedes Soares, C. (2006), "Study of the Dynamics of a Damaged Passenger Ro-Ro Ship", *Proceedings of the 9th International Conference on Stability of Ships and Ocean Vehicles (STAB´06)*, 25-29 September, Rio de Janeiro, Brasil.

5.3.55 Vodkadzhiev, I., Garbatov, Y., Guedes Soares, C. and Kolev, P. (2006), "Modelling of Structural Deterioration of Deck Structures of Bulk Carriers", *Proceedings of the 8th International Conference on Marine Sciences and Technologies (Black Sea´06)*, 25-27 September, Varna, Bulgaria, pp. 15-21.

5.3.56 Andreev, A. and Guedes Soares, C. (2006), "Collapse Strength of Plates with Localised Corrosion Damages from the Bottom of Ship Tanks", *Proceedings of the 8th International Conference on Marine Sciences and Technologies (Black Sea´06)*, 25-27 September, Varna, Bulgaria, pp. 22-27.

5.3.57 Chakarov, K., Garbatov, Y. and Guedes Soares, C. (2006), "Analysis of Stress Concentration Factors of an Imperfect Welded Deck Structure", *Proceedings of the 8th International Conference on Marine Sciences and Technologies (Black Sea´06)*, 25-27 September, Varna, Bulgaria, pp. 28-35.

5.3.58 Jacinto, C., Canoa, M., Fialho, T., Antão, P. and Guedes Soares, C. (2006), "Accident Causation Factors in the Food Industry in Portugal", *Proceedings of the Working on Safety Conference (WOS'06)*, 12-15 September, Eemhof, Netherlands.

5.3.59 Faravelli, A., Fracchia, M., Raffetti, A., Guedes Soares, C. and Antão, P. (2006), "Safety and cost / benefit analysis application in Ship-Shore Interface operations", *Proceedings of the First International Symposium on Ship Operations, Management & Economics*, 12-13 May 2005, Athens, Greece.

5.3.60 Teixeira, A.P. and Guedes Soares, C. (2006), "Probabilistic Modelling of the Ultimate Strength of Plates with Random Fields of Corrosion", *Proceedings of the 5th Computational Stochastic Mechanics Conference (5CSM)*, 21-23 June, Rhodes-Greece, Spanos, P. D. (Ed.).

5.3.61 Duarte, J.C. and Guedes Soares, C. (2007), "Optimization of the Preventive Maintenance Plan of a Series Components System with Weibull Hazard Function", 2007, *Proceedings of the Summer Safety and Reliability Seminars*, Sopot, Poland.

5.3.62 Zayed, A., Garbatov, Y. and Guedes Soares, C. (2007), "Corrosion Modelling of Single Hull Crude Oil Tanker subjected to Complex Deterioration Environment", *Proceedings of the 26th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´07)*, 10-15 June, San Diego, USA, ASME, New York, Paper OMAE2007-29741.

5.3.63 Garbatov, Y. and Guedes Soares, C. (2007), "Structural Reliability of Ship Hull Subjected to Non-linear Time Dependent Deterioration, Inspection and Repair", *Proceedings of the 10th International Symposium on Practical Design of Ships and Other Floating Structures (PRADS´07)*, Houston, Texas, USA.

5.3.64 Vanem, E., Antão, P., Del Castillo de Comas, F. and Skjong, R. (2007), "Formal Safety Assessment of LNG Tankers" *Proceedings of the 10th International Symposium on Practical Design of Ships and Other Floating Structures (PRADS´07)*, Houston, Texas, USA.

5.3.65 Teixeira, A.P. and Guedes Soares, C. (2007), "Simulation of Inspections on Ship Plates with Random Corrosion Patterns" *Proceeding of the 10th International Symposium on Practical Design of Ships and Other Floating Structures (PRADS´07)*, Houston, Texas, USA.

5.3.66 Parunov, J., Mage, P. and Guedes Soares, C. (2008), "Hull-Girder Reliability of an Aged Oil Tanker", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-57183.

5.3.67 Hussein, A.W. and Guedes Soares, C. (2008), "Partial safety factors assessment for double hull tankers following the new common structural rules", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008- 57949.

5.3.68 Zayed, A., Garbatov, Y. and Guedes Soares, C. (2008), "Nondestructive Corrosion Inspection Modelling of Tanker Structures", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008- 57500.

5.3.69 Jiang, X. and Guedes Soares, C. (2008), "Assessment of the Uncertainty in Corrosion Models for Ship Steels", *Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´08)*, 15-20 June, Estoril, Portugal, ASME, New York, Paper OMAE2008-58052.

5.3.70 Jacinto, C. and Silva, C. (2008), "Application of the bow-tie approach in a semi-quantitative assessment of occupational risks", *Proceeding of the 4th International Conference "Working on Safety" (WOS ´08)*, 30 September - 3 October, Crete, Greece.

5.3.71 Silvia, S., Oliveira, M.J., Carvalho, H., Jacinto, C., Fialho, T. and Guedes Soares, C. (2008), "Organizational Practices for Learning with work accidents", *Proceedings of the 8th Conference of the European Academy of Occupational Health Psychology (EA-OHP)*, 12-14 November, Valencia, Spain.

5.3.72 Garbatov, Y. and Guedes Soares, C. (2009), "Uncertainty Assessment of Fatigue Damage of Welded Ship Structural Joints", *Proceedings of the International Conference in Ocean Engineering (ICOE´09)*, 1-5 February, Chennai, India.

5.3.73 Garbatov, Y. and Guedes Soares, C. (2009), "Predictive reliability of cracked structures based on experimental data", *Proceedings of the 13th Congress of International Maritime Association of the Mediterranean (IMAM´09)*, 12-15 October, Istanbul, Turkey.

5.3.74 Moore, W.H., Arai, M., Besse, P., Birmingham, R., Bruenner, E., Chen, Y.K., Dasgupta, J., Friis-Hansen, P., Boonstra, H., Hovem, L., Kujala, P., McGregor, J., Rizzuto, E., Teixeira, A., Zanic, V. and Yoshida, K. (2009), "Committee IV.1 - Design Principles and Criteria", *Proceedings of the 17th International Ship and Offshore Structures Congress (ISSC)*, 16-21 August, Jang, C.D. and Hong, S.Y. (Eds.), Seoul National University, Vol. 1, pp. 587-688.

5.3.75 Wang, G., Boon, B., Brennan, F.P., Garbatov, Y., Ji, C., Parunov, J., Rahman, T.A., Rizzo, C., Rouhan, A., Shin, C.H. and Yamamoto, N. (2009), "Committee V.6 - Condition Assessment of Aged Ships and Offshore Structures", *Proceedings of the 17th International Ship and Offshore Structures Congress (ISSC)*, 16-21 August, Jang, C.D. and Hong, S.Y. (Eds.), Seoul National University, Vol. 2, pp. 309-365.

5.3.75a Simões, R.F., Quaresma Dias, J. and Pinto, A. (2009), "Industrial Safety in the European Transborder Framework" (in Portuguese), *Actas do Colóquio Internacional de Segurança e Higiene Ocupacionais*, 5-6 February, Universidade do Minho, Escola de Engenharia, Departamento de Produção e Sistemas, Sociedade Portuguesa de Segurança e Higiene Ocupacionais, Arezes, P. et al (Eds.), Guimarães, pp. 381-387.

5.3.76 Figueira, S. and Jacinto, C. (2010), "Accidents at Work in the Wood and Cork Manufacturing Sector", *Proceedings of the International Colloquium of the Portuguese Society for Occupational Safety and Hygiene (SPO-SHO)* (in Portuguese), 11-12 February, Guimarães, pp. 244-248.

5.3.77 Jacinto, C., Guedes Soares, C., Fialho, T. and Silva, S.A. (2010), "A new process for managing accident information and improving safety", *Proceedings of the International Colloquium of the Portuguese Society for Occupational Safety and Hygiene (SPO-SHO)* (in Portuguese), 11-12 Fevereiro, Guimarães, pp. 285-289.

5.3.78 Fialho, T., Jacinto, C., Guedes Soares, C., Antão, P. and Silva, S.A. (2010), "Comparison of official notifications of work accidents in EU countries" (in Portuguese), *Proceedings of the International Colloquium of the Portuguese Society for Occupational Safety and Hygiene (SPO-SHO)*, 11-12 February, Guimarães, Portugal, pp. 239-243.

5.3.79 Silva, S.A., Oliveira, M.J., Carvalho, H., Fialho, T., Guedes Soares, C. and Jacinto, C. (2010), "Organizational Practices for Learning with work accidents", *Proceedings of the International Colloquium of the Portuguese Society for Occupational Safety and Hygiene (SPO-SHO)* (in Portuguese), 11-12 February, Guimarães, Portugal, pp. 497-500.

5.3.80 Garbatov, Y. and Guedes Soares, C. (2010), "Assessment of the Uncertainties Introduced by different Fatigue Damage Models for Ship Structural Details", *Proceedings of the 29th International Conference on Offshore Mechanics and Arctic Engineering (OMAE´10)*, June 6-11, Shanghai, China, ASME, New York, Paper OMAE2010-20766.

5.3.81 Jacinto, C., Guedes Soares. C., Fialho, T. and Silva, S.A. (2010), "From Accident Records to Safety Learning and Improvement", *Proceedings of the 5th International Conference Workingonsafety.net (WOS 2010)*, 7-10 September, Roros, Norway.

5.3.82 Pinto, A., Simões, R., Dias, J. and Costa, S. (2010), "Evaluation of risks at MANTEM", *Proceedings of the International Colloquium of the Portuguese Society for Occupational Safety and Hygiene (SPO-SHO)* (in Portuguese), 11-12 February, Guimarães, Portugal.

5.3.83 Marques, P.H., Jesus, V., Vairinhos, V., Olea, S.A. and Jacinto, C. (2010), "Application of data mining techniques to rail works safety", *Proceedings of the 5th Scientific Meeting ISLA - Data Mining and Business Intelligence, Methods and Applications*, ISLA, Santarém, Portugal. pp.77-84.

5.3.84 Gaspar, B., Teixeira, A.P., Guedes Soares, C. and Wang G., (2010), "Assessment of IACS-CSR Implicit Safety Level for Buckling Strength of Plate Panels for Double Hull Tankers", *Proceedings of the 11th International Symposium on Practical Design of Ships and Other Floating Structures (PRADS 2010)*, Rio de Janeiro, Brasil, paper: PRADS2010-2271, pp. 1459-1469.

5.3.85 Zuesongdham, P., Noce, E., Salaris, M.V., Gómez Arche, A.M. and Antão, P. (2010), "RAPORT - Guidance for Port Risk Assessment", *Annual Meeting and Expo (SNAME 2010)*, 3-5 November, Seattle, USA.

5.3.86 Rizzuto, E., Teixeira, A.P. and Guedes Soares, C. (2010), "Reliability assessment of a tanker in damage conditions", *Proceedings of the 11th International Symposium on Practical Design of Ships and Other Floating Structures (PRADS 2010)*, Rio de Janeiro, Brasil, paper: PRADS2010-2242, pp. 1446-1458.

5.3.86a Mendes, J.P. and Gomes, D.A. (2010), "Modelling the Response to Terrorist Port Intrusion", *Proceedings of the 2nd International Conference WaterSide Security (WSS2010)*, 3-5 November, Marina di Carrara, Italy.

5.3.87 Pintor, S., Silva, S., Pedro, M., Lopes, J., Guedes Soares, C. and Jacinto, C. (2011), "The role of type of questions in gathering information about occupational accidents", *Occupational Safety and Hygiene SHO 2011*, 10-11 February, Guimarães, Portugal, pp. 517-520.

5.3.88 Garbatov, Y. and Guedes Soares, C. (2011), "Fatigue Reliability Assessment of Welded Joints of Very Fast Ferry Subjected to Combined Load", *Proceedings of the 9th Symposium on High Speed Marine Vehicles (HSMV 2011)*, 25-27 May, Naples, Italy.

5.3.89 Cagno, E., Micheli, G.J.L., Jacinto, C. and Masi, D. (2011), "Occupational Safety & Health (OSH) Performance of SMEs: A Structured Framework", *Proceedings of the 2011 IEEE IEEM*, Singapore, pp. 985-989.

5.3.90 Cagno, E., Micheli, G.J.L., Masi, D. and Jacinto, C. (2011), "A Review on Models and Practical Methods for Economic Evaluation of Occupational Safety and Health (OSH) ", *Proceedings of the 2011 IEEE IEEM*, Singapore, pp. 1134-1139.

5.3.91 Pinto, A., Matias, J.C., Simões, R. and Quaresma Dias, J. (2011), "Risk Assessment in the Production Area of Industrial Enterprise", *Proceedings of the 6th International Symposium on Occupational Safety and Hygiene (SHO 2011)* (in Portuguese), 10-11 February, Guimarães, Portugal.

5.3.92 Pinto, A., Calado, A., Matias, J.C., Simões, R. and Quaresma Dias, J. (2011), "The Importance of Maintenance in Occupational Health and Safety", *Proceedings of the 6th International Symposium on Occupational Safety and Hygiene (SHO 2011)* (in Portuguese), 10-11 February, Guimarães, Portugal.

5.3.93 Simões, R., Pinto, A. and Quaresma Dias, J. (2011), "The International Commerce Environment for Dangerous Chemical Products", *International Conference on Engineering (ICEUBI 2011)* (in Portuguese), 28-30 November, Covilhã, Portugal.

5.3.94 Simões, R., Pinto, A. and Quaresma Dias, J. (2011), "External Industrial Safety. Serious Accidents", *International Conference on Engineering (ICEUBI 2011)* (in Portuguese), 28-30 November, Covilhã, Portugal.

5.3.95 Dias, A.S., Abreu, A.F., Abreu, J.C. and Quaresma Dias, J. (2011), "TRIZ and non TRIZ tools", *International Conference on Engineering (ICEUBI 2011)*, 28-30 November, Covilhã, Portugal.

5.3.96 Dias, A.S., Abreu, A.F., Abreu, J.C. and Quaresma Dias, J. (2011), "Methodologies and support tools for the design and development of new products", *International Conference on Engineering (ICEUBI 2011)* (in Portuguese), 28-30 November, Covilhã, Portugal.

5.3.97 Pinto, A., Abreu, A.F., Simões, R. and Quaresma Dias, J. (2011), "Ship Repair. Maintenance in Confined Spaces", *International Conference on Engineering (ICEUBI 2011)* (in Portuguese), 28-30 November, Covilhã, Portugal.

5.3.98 Mendes, P. and Água, P.B. (2011), "Risk handling in technology adoption strategies", *NATO Risk-Based Planning Conference*, 3-5 October, Salisbury, UK.

5.3.99 Mendes, P. and Gomes D.A. (2011), "Modelling the Response to Terrorist Port Intrusion", *NATO-IEEE Waterside Security Conference*, 3-5 November, Carrara, Italy.

5.3.100 Gaspar, B., Naess, A., Leira, B.J. and Guedes Soares, C. (2011), "Efficient System Reliability Analysis by Finite Element Structural Models", *Proceedings of the 30th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2011)*, 19-24 June, Rotterdam, The Netherlands, ASME, New York, USA, paper: OMAE2011-49950.

5.3.101 Marques, P.H., Jesus, V., Vairinhos, V., Olea, S.A. and Jacinto, C. (2011), "The control of alcohol and drugs and occupational accidents at the "Trains of Portugal": data analysis", *International Symposium on Occupational Safety and Hygiene - SHO 2011* (in Portuguese), Arezes et al (Eds), 10-11 February, Guimarães, Portugal, pp.373-377.

5.3.102 Mirciu, I., Garbatov, Y., Guedes Soares, C. and Domnisoru, L. (2012), "Fatigue Assessment of Damaged LPG Carrier", *11th International Conference on Marine Sciences and Technologies (Black Sea 2012)*, 4-6 October, Varna, Bulgaria.

5.3.103 Rubanenco, I., Garbatov, Y., Guedes Soares, C. and Domnisoru, L. (2012), "Fatigue Damage Analysis of Optimized Ship Structure", *11th International Conference on Marine Sciences and Technologies (Black Sea 2012)*, 4-6 October, Varna, Bulgaria.

5.3.104 Gaspar, B., Naess, A., Leira, B.J. and Guedes Soares, C. (2012), "Efficient System Reliability Analysis by Finite Element Structural Models", *Proceedings of the 16th Working Conference and Scientific Meeting of the IFIP Working Group 7.5 on Reliability and Optimization of Structural Systems*, 24–27 June, Yerevan, Armenia.

5.3.105 Santos, F.P., Teixeira, A.P. and Guedes Soares, C. (2013), "Maintenance Planning of an Offshore Wind Turbine using Stochastic Petri Nets with Predicates", *Proceedings of the 32nd International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2013)*, 9-14 June, Nantes, France.

5.3.106 Almeida, T., Baptista, J. and Quaresma Dias, J. (2013), "An approach to OHS risk assessment in seaports", *International Congress on Safety and Labour Market*, 8-9 May, Covilhã, Portugal.

5.3.107 Lampreia, S. Vairinhos, V., Dias, J. and Requeijo, J. (2013), "Vibrations detection and analysis in Equipments with MCUSUM charts and frequencies graphs", *4th International Conference on Integrity, Reliability and Failure (IRF 2013)*, 23-27 June, Funchal, Madeira, Portugal.

5.3.107a Gaspar, B., Teixeira, A.P. and Guedes Soares, C. (2013), "Assessment of the efficiency of Kriging models for reliability analysis of complex structures", *11th International Conference on Structural Safety & Reliability (ICOSSAR 2013)*.

5.3.108 Santos, F.P., Jacinto, C., Silva, S.A., Fialho, T. and Guedes Soares, C. (2014), "Intercoder reliability of accidents at work for four variables of the ESAW methodology (in Portuguese)", *International Symposium on Occupational Safety and Hygiene (SHO 2014)*, 13-14 February, Guimaraes, Portugal, pp. 386-389.

5.3.109 Yan, X., Zhang, J., Zhang, D. and Guedes Soares, C. (2014), "Challenges and developments in navigational risk assessment with large uncertainty", *Proceedings of the 33rd International Conference on Ocean, Offshore and Arctic Engineering (OMAE2014)*, San Francisco, CA, USA, 8-13 June, Paper: OMAE2014-23411.

5.3.110 Sobral, J. and Guedes Soares, C. (2014), "Risk Management based on the Assessment of Safety Barriers", *Maintenance Performance Measurement and Management Conference 2014 (MPMM2014)*, Coimbra, Portugal, 4-5 September, pp. 205-212.

5.3.111 Santos, J., Barata, H., Cordeiro, H., Mendonca, C. and Sobral, J. (2014), "Life cycle cost optimization through an asset management based on risk principles" *Maintenance Performance Measurement and Management Conference 2014 (MPMM2014)*, Coimbra, Portugal, 4-5 Setembro, pp. 49-55.

5.3.112 Gaspar, B., Teixeira, A.P. and Guedes Soares, C. (2014), "Structural reliability analysis combining Kriging surrogate models with an adaptive trust region method", *7th International Conference on Computational Stochastic Mechanics (CSM7)*", 15-18 June, Santorini, Greece.

5.3.113 Cardoso, J.B., Teixeira, A.P. and Fraga, P.T., (2014), "Reliability-Based Design Optimization Using Design Sensitivity Analysis", *7th International Conference on Computational Stochastic Mechanics (CSM-7)*, 15-18 June, Santorini, Greece.

5.3.114 Garbatov, Y. (2014), "Fatigue Strength Asessment of Ship Structures, *XIV Portuguese Conference on Fracture (PCF 2014)*, 6-7 September, Régua, Portugal, pp. 3-18.

5.3.115 Vettor, R. and Guedes Soares, C. (2015), "A Ship Weather Routing Tool to Face the Challenges of an Evolving Maritime Trade", *RIN International Navigation Conference 2015 (RIN-INC 2015)*, 24-26 February, Manchester, UK.

5.3.116 Santos, J. and Sobral, J. (2015), "Maintenance optimization based on a dynamic simulation model (in Portuguese)", *13th Congresso Nacional de Manutencao*, 19-20 de Novembro, Aveiro, Portugal.

5.3.117 Sobral, J., Serrano, E. and Ferreira, L. (2015), "Methods, techniques and tools to understand human error in industrial activities: a review", *Proceedings of the 49th ESReDA Seminar - Innovation through Human Factors in Risk Assessment and Maintenance*, 29-30 October, Bruxelas, Belgium.

5.3.118 Sobral, J. and Roque, A. (2015), "Overall Service Efficiency (OSE) of a Condition Monitoring Service through Gap Analysis", *International Conference on Engineering - Engineering for Society (ICEUBI 2015)*, 2-4 December, Covilhã, Portugal.

5.3.119 Cassiano, J., Calvário, M., Constante, D., Amado, F. and Sobral, J. (2015), "Selection of a company providing maintenance service by using the AHP method for decision making (in Portuguese)", *13th Congresso Nacional de Manutencao*, 19-20 de Novembro, Aveiro, Portugal.

5.3.120 Almeida, J., Fernandes, J., Rodrigues, R., Cardoso, F. and Sobral, J. (2015), "Determination of the number of rotators to have in storage based on risk criteria (in Portuguese)", *13th Congresso Nacional de Manutencao*, 19-20 de Novembro, Aveiro, Portugal.

5.3.121 Gaspar, B., Teixeira, A.P. and Guedes Soares, C. (2015), "Adaptive surrogate model with active refinement combining Kriging and a trust region method", *12th International Conference on Applications of Statistics and Probability in Civil Engineering (ICASP12)*, 12-15 July, Vancouver, Canada.

5.3.122 Wu, B., Yan, X.P., Wang, Y., Zhang, D. and Guedes Soares, C. (2015), "A Sequential Barrier-based Model to Evaluate Human Reliability in Maritime Accident Process", *3rd International Conference on Transportation Information and Safety (ICTIS 2015)*, 25-28 June, Wuhan, China.

5.3.123 Zhao, S., Zhu, H.H. and Guedes Soares, C. (2015), "A Bayesian Network Modelling and Risk Analysis on LNG Carrier Anchoring System", *3rd International Conference on Transportation Information and Safety (ICTIS 2015)*, 25-28 June, Wuhan, China.

5.3.124 Ferreira, L., Sobral, J. and Farinha, L. (2015), "LCC - Life cycle cost, its importance in the 'Physcial Asset Management' policy (in Spanish)", *7º. Congreso Mundial de Mantenimiento y Gestión de Activos (18o. Congreso Iberoamericano de Mantenimiento y XVII Congreso Internacional de Mantenimiento), FIM - Federación Iberoamericana de Mantenimiento (CMMGA 2015)*, May 2015, Cartagena de Indias, Colombia.

5.3.125 Santos, T.A., Santos, A.M.P. and Guedes Soares, C. (2015), "The 'Portuguese Range' as the Westernmost Maritime Region of Europe", *55th ERSA CONGRESS - World Renaissance: Changing roles for People and Places*, 25-29 August, Lisbon, Portugal.

5.3.126 Santos, T.A. and Guedes Soares, C. (2015), "Port regionalization in the Portuguese range", *European Conference on Shipping, Intermodalism & Ports (ECONSHIP 2015)*, 24-27 June, Chios, Greece.

5.3.127 Teixeira, A.P., Guia, J. and Guedes Soares, C. (2015), "Effect of IMO's environmental criterion on the optimum hull girder safety level", *5th World Maritime Technology Conference (WMTC 2015)*, 3-7 November, Providence, Rhode Island, USA.

5.3.128 Simoes, A., Salvador, R., Guedes Soares, C. and Ferreira, A. (2015), "Features of the Maritime European Basins and Clusters", *55th ERSA CONGRESS - World Renaissance: Changing roles for People and Places*, 25-29 August, Lisbon, Portugal.

5.3.128a Garbatov, Y. and Guedes Soares, C. (2015), "Reliability of Deteriorated Marine Structures Based on Measured Data", *Proceedings of 2015 International Conference on Quality, Reliability, Risk, Maitenance, and Safety Engineering (QR2MSE 2015)*, 21-24 July, Beijing, China.

5.3.129 Beckert, J., Ferreira, D., Minhalma, R., Mendes, J.P. and Alves, F. (2016), "Mathematical Modelling Exercise: from the Laboratory to the Field (in Portuguese)", *XIV Jornadas da Sociedade Portuguesa de Medinica Desportiva*, 30 April, Lisbon, Portugal.

5.3.130 Garbatov, Y. and Guedes Soares, C. (2016), "Reliability assessment of a container ship subjected to asymmetrical bending", *13h International Symposium on Practical Design of Ships and Other Floating Structures (PRADS 2016)*, 4-8 September, Copenhagen, Denmark.

5.3.131 Sobral, J. and Guedes Soares, C. (2016), "Preventive Maintenance of Critical Assets based on Degradation Mechanisms and Failure Forecast", *IFAC AMEST Workshop on Maintenance Technologies for Performance Enhancement*, 19-21 October, Biarritz, France, pp. 97-102.

5.3.132 Goncalves, P., Sobral, J. and Ferreira, L. (2016), "Safety Assessment of Unmanned Aerial Vehicle Systems: Practical Application", *IMA World Maintenance Forum 2016*, April 2016, Lugano, Switzerland.

5.3.132a Liang, Z., Zhang, D., Guedes Soares, C. and Fan, S.Q. (2016), "A Petri Net Model for a Causation Analysis of Ship Foundering", *13th International Conference on Probabilistic Safety Assessment and Management (PSAM 13)*, 2-7 October, Seoul, Korea.

5.3.133 Sobral, J. and Guedes Soares, C. (2017), "Physical safety barriers behaviour based on RAM analysis using DEMATEL method", *27th European Safety and Reliability Conference (ESREL 2017)*, 18-22 June, Portoroz, Slovenia.

5.3.134 Corak, M., Parunov, J. and Guedes Soares, C. (2017), "Structural Reliability Assessment of an oil tanker accidentally grounded in the Adriatic Sea", *Proceedings of the ASME 2016 36th International Conference on Ocean, Offshore and Arctic Engineering (OMAE17)*, 25-30 June, Trondheim, Norway.

5.3.135 Palencia, O.G., Teixeira, A.P. and Guedes Soares, C. (2017), "Safety of pipelines subjected to deterioration processes modelled through Dynamic Bayesian Networks", *Proceedings of the ASME 2016 36th International Conference on Ocean, Offshore and Arctic Engineering (OMAE17)*, 25-30 June, Trondheim, Norway.

5.3.136 Teixeira, A.P., Palencia, O.G. and Guedes Soares, C. (2017), "Reliability analysis of corroded pipelines under external pressure", *Proceedings of the ASME 2016 36th International Conference on Ocean, Offshore and Arctic Engineering (OMAE17)*, 25-30 June, Trondheim, Norway.

5.3.137 Gonçalves, P., Sobral, J. and Ferreira, L. (2017), "Airworthiness Process Applied to the Portuguese Remotely Piloted Aircraft Systems", *Applied Vehicles Technology (AVT) Specialists' Meeting AVT-273/RSM-048*, May 2017, Vilnius, Lithuania.

5.3.138 Sobral, J., Teixeira, D., Morais, H. and Neves, M. (2017), "Methodology to Assess Medical Processes based on a Failure Modes and Effects Analysis (FMEA)", *5th ENBENG Portuguese Bioengineering Meeting*, February 2017, Coimbra, Portugal.

5.3.139 Palencia, O.G., Teixeira, A.P. and Guedes Soares, C. (2017), "Modelling of deterioration processes in ship structures through Dynamic Bayesian Networks", *12th International Conference on Structural Safety & Reliability (ICOSSAR 2017)*, 6-10 August, TU Wien, Vienna, Austria, pp. 1936-1946.

5.3.139a Wu, B., Wang, Y., Zong, L.K., Guedes Soares, C. and Yan, X.P. (2017), "Modelling the collision risk in the Yangtze River using Bayesian networks", *4th International Conference on Transportation Information and Safety (ICTIS 2017)*, 8-10 August, Banff, Alberta, Canada, pp. 503-509.

5.3.140 Dong, Y., Garbatov, Y. and Guedes Soares, C. (2018), "Fatigue reliability assessment of fillet welded cruciform joints based on the fatigue notch factor and the local strain approach", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

5.3.141 Dong, Y., Garbatov, Y. and Guedes Soares, C. (2018), "Strain-based fatigue reliability analysis of a load-carrying fillet welded cruciform joint", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

5.3.142 Garbatov, Y. and Guedes Soares, C. (2018), "Corrosion margins for redundant ship structures", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

5.3.143 Teixeira, A.P. and Guedes Soares, C. (2018), "Adaptive methods for reliability analysis of marine structures", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

5.3.144 Teixeira, A.P. and Guedes Soares, C. (2018), "Risk of maritime traffice in coastal waters", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

5.3.145 Xu, S., Guedes Soares, C. and Teixeira, A. P. (2018), "Reliablity analysis of short term mooring tension of a semi-submersible system", *Proceedings of the ASME 2018 37th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2018)*, 17-22 June, Madrid, Spain.

5.3.146 Mendes, M.J.G.C., Neto, I.M.M.S. and Calado, J.M.F. (2018), "Fault Diagnosis System Via Internet Applied to a Gantry Robot - A Proposal for Industry 4.0", *18th IEEE International Conference on Autonomous Robot Systems and Competitions (ICARSC)*, 25-27 April, Torres Vedras, Portugal.

5.3.147 Roque, A. and Sobral, J. (2018), "Motion amplification technology as a tool to support maintenance decisions", *Maintenance Performance Measurement and Management 2018*, 21-23 June, Coimbra, Portugal.

5.3.148 Roque, A. and Sobral, J. (2018), "Predictive Maintenance using Ultrasound Technology as Condition Monitoring", *Maintenance Performance Measurement and Management 2018*, 21-23 June, Coimbra, Portugal.

5.3.149 Beites, N., Dias, M., Mendes, M.J.G.C., Carreira, F., Campos, F. and Calado, J.M.F. (2018), "A gantry robot automatic positioning system using computational vision", *Proceedings of the 1st Iberic Conference on Theoretical and Experimental Mechanics and Materials*, 4-7 November, Porto, Portugal, pp. 1031-1042.

5.3.150 Ferreira, P. and Bellini, E. (2018), "Managing interdependencies in critical infrastructures - a cornerstone for system resilience", *28th European Safety and Reliability Conference (ESREL 2018)*, 17-21 June, Trondheim, Norway.

5.3.150A Sobral, J. and Guedes Soares, C. (2018), "Identification of Outliers in Failure Data", *3rd International Conference on Maintenance Engineering (IncoME 2018)*, 6-7 September, Coimbra, Portugal, pp. 247-261.

5.3.150B Sobral, J. and Rodrigues, S. (2018), "Reliability of composite materials based on accelerated life tests", *3rd International Conference on Maintenance Engineering (IncoME 2018)*, 6-7 September, Coimbra, Portugal, pp. 236-246.

5.3.151 Save, L., Brandlat, M., Haynes, W., Bellini, E., Ferreira, P., Lauteritz, J.P. and Gonzalez, J.J. (2019), "The Development of Resilience Management Guidelines to Protect Critical Infrastructures in Europe", *Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018)*, 26-30 August, Florence, Italy.

5.3.152 Garbatov, Y. and Huang, Y.C. (2019), "Multiobjective reliability-based design of ship structures subjected to fatigue damage and compressive collapse", *Proceedings of the ASME 2019 38th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2019)*, 9-14 June, Glasgow, Scotland, UK.

5.3.153 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2019), "Risk of ship near collision scenarios off the coast of Portugal", *29th European Safety and Reliability Conference (ESREL 2019)*, 22-26 September, Hannover, Germany, pp. 3660-3666.

5.3.154 Sobral, J. and Guedes Soares, C. (2019), "Offshore wind farms maintenance strategy using the analytic network process (ANP)", *Proceedings of the 29th European Safety and Reliability Conference (ESREL 2019)*, 22-26 September, Hannover, Germany, pp. 615-622.

5.3.155 Li, H. e Guedes Soares, C. (2019), "Reliability analysis of floating offshore wind turbines support structures based on Hierarchical Bayesian Network)", *Proceedings of the 29th European Safety and Reliability Conference (ESREL 2019)*, 22-26 September, Hannover, Germany, pp. 2489-2495.

5.3.156 Bhardwaj, U., Teixeira, A. P. and Guedes Soares, C. (2019), "Reliability prediction of a subsea separator", *4th Workshop and Symposium on Safety and Integrity Management of Operations in Harsh Environments: Risk, Reliability and Resilience (CRISE4)*, 15-17 July, St. John's, Newfoundland, Canada, p. 1-9.

5.3.157 Wu, B., Zhang, J., Yip, T.L., Yan, X.P. and Guedes Soares, C. (2019), "Fuzzy-logic based ship-bridge collision alert model form ship behaviour perspective", *5th International Conference on Transportation Information and Safety (ICTIS 2019)*, 14-17 July, Liverpool, UK.

5.3.158 Yazdi, M. and Darvishmotevali, M. (2019), "Fuzzy-Based Failure Diagnostic Analysis in a Chemical Process Industry", *13th International Conference on Theory and Application of Fuzzy Systems and Soft Computing (ICAFS)*, 26-27 August, Warsaw, Poland, pp. 724-731.

5.3.159 Águas, B. and Sobral, J. (2019), "Development of a Risk Management Tool for Healthcare Providers", *2019 IEEE 6th Portuguese Meeting on Bioengineering (ENBENG)*, 22-23 February, Lisbon, Portugal.

5.3.160 Oliveira, V., Sobral, J. and Margarida Ribeiro, M. (2019), "Development of a Tool for Selection and Acquisition of Medical Devices based on the Analytic Hierarchy Process", *2019 IEEE 6th Portuguese Meeting on Bioengineering (ENBENG)*, 22-23 February, Lisbon, Portugal.

5.3.161 Sobral, J., Gaspar, D. and Almeida, N. (2019), "Maintenance of technical installations in buildings based on asset life cycle analysis", *International Conference on Automation Innovation in Construction (CIAC 2019)*, 7-8 November, Leiria, Portugal.

5.3.162 Assis, R. and Sobral, J. (2019), "Analysis of the economic viability of maintaining an expensive spare as repairable and non-repairable alternative (in Portuguese)", *15º. Congressos Nacional de Manutenção*, 21-22 November, Braga, Portugal.

5.3.163 Assis, R., Sobral, J. and Ribeiro, J. (2019), "Substitution of the group of components of rapid wear and subject to alternative policies of maintenance correction, systematic and predictive prevention (in Portuguese)", *15º. Congressos Nacional de Manutenção*, 21-22 November, Braga, Portugal.

5.3.164 Carvalho, A-J. and Sobral, J. (2019), "Influence on the operation and maintenace of the operational availability of industrial equipment (in Portuguese)", *15º. Congressos Nacional de Manutenção*, 21-22 November, Braga, Portugal.

5.3.165 Sobral, J., Badolato, A. and Roque, A. (2019), "Optimization of the lubrication programme through the automatized control by resorting to techology 4.0 (in Portuguese)", *15º. Congressos Nacional de Manutenção*, 21-22 November, Braga, Portugal.

5.3.166 Santos, T.A., Martins, P. and Guedes Soares, C. (2019), "The impact of container terminal relocation in hinterland delimitations", *Proceedings of the 27th Annual Conference of the International Association of Maritime Economists*, 25-28 June, Athens, Greece.

5.3.167 Santos, T.A. Martins, P. and Guedes Soares, C. (2019), "Short sea shipping and the promotion of multimodality in the European Atlantic Area", *Proceedings of the 27th Annual Conference of the International Association of Maritime Economists*, 25-28 June, Athens, Greece.

5.3.168 Yeter, B., Tekgoz, M. Garbatov, Y. and Guedes Soares, C. (2019), "Fragility analysis of ageing monopile owt structure subjected to seismic loads", *4th Workshop and Symposium on Safety and Integrity Management of Operations in Harsh Environments: Risk, Reliability and Resilience (CRISE4)*, 15-17 July, St. John's, Newfoundland, Canada, p. 1-9.

5.3.169 Jalal, M.R., Abdulhamid, M.F., Kang1, H.S., Kader1, A.S., Tamin, M.N. and Lotovskyi, E. (2019), "Stochastic Petri Nets Modeling for Reliability, Availability and Maintainability Study of a Power Generation Plant", *29th Safety and Reliability Conference (ESREL 2019)*, 22-29 September, Hannover, Germany, pp. 2567-2574.

5.3.170 He, YK., Zhang, D., Zhang, J.F., Wu, B. and Guedes Soares, C. (2020), "Dynamic ship domain model based on AIS data for inland waterways", *Proceedings of the ASME 2020 39th International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2020)*, 28 June - 3 July, Fort Lauderdale, Florida, USA, paper: OMAE2020-18700.

5.3.171 Carvalho, A. and Sobral, J. (2020), "Availability of Critical Industrial Equipment based on a FMEA-AHP Analysis", *30th European Safety and Reliability Conference and the 15th Probabilistic Safety Assessment and Management Conference (ESREL2020-PSAM15)*, P. Baraldi, F. Di Maio & E. Zio (Eds.), 1-5 November, Venice, Italy & Online, pp. 2705-2712.

5.3.172 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2021), "Burst failure and reliability assessment of X-100 to X-120 ultra-high strength pipes", *40th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2021)*, 21-30 June, Virtual online, Paper OMAE2021-63945.

5.3.173 Bhardwaj, U., Teixeira, A.P. and Guedes Soares, C. (2021), "Uncertainty in collapse strength prediction of sandwich pipelines", *40th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2021)*, 21-30 June, Virtual online, Paper OMAE2021-63927.

5.3.174 Ramos, S., Goncalves, M. and Guedes Soares, C. (2021), "A Method for identifying compatible locations for wave energy exploration with different WECs", *40th International Conference on Ocean, Offshore and Arctic Engineering (OMAE2021)*, 21-30 June, Virtual online, Paper OMAE2021-62949.

5.3.175 Vicente, L. and Mendes, M.J.G.C. (2021), "SCADA system design for a new paradigma of Industry 4.0 (in Portuguese)", *12º Congresso Nacional de Mecânica Experimental (CNME 2020)*, 29 September-1 October, Monte Real, Leiria.

5.3.176 Santos, T.A., Ramalho, M.M. and Guedes Soares, C. (2021), "Assessment of external costs of transportation using transport network models", *6th International Conference on Transportation Information and Safety (ICTIS 2021)*, 22-24 October, Wuhan, China.

5.3.177 Sobral, J. (2021), "Methodology for Fire Risk Assessment in Industrial Facilities", *5º Congresso da Associação Brasileira de Análise de Risco, Segurança de Processo e Confiabilidade (ABRISCO 2021)*, 22-24 November, Online, Brasilia, Brasil, Paper 2796.

5.3.178 Sobral, J. (2021), "Selection and Implementation of Methodologies in the Management of Physical Activies (in Portuguese)", *16º Congresso Nacional de Manutenção*, 23-24 November, Aveiro, Portugal.

5.3.179 Rong, H., Teixeira, A.P. and Guedes Soares, C. (2021), "Maritime traffic network extraction and application based on AIS data", *6th International Conference on Transportation Information and Safety (ICTIS 2021)*, 22-24 October, Wuhan, China.

5.3.180 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2022), "Optimal management of offshore wind assets at different stages of life extension accounting for uncertainty propagation", *41st International Conference on Ocean, Offshore and Arctic Engineering (OMAE2022)*, 5-10 June, Hamburg, Germany, paper OMAE2022-78185, V002T02A060.

5.3.181 Yeter, B., Garbatov, Y. and Guedes Soares, C. (2022), "Analysis of Life Extension Performance Metrics for Offshore Wind Assets", *41st International Conference on Ocean, Offshore and Arctic Engineering (OMAE2022)*, 5-10 June, Hamburg, Germany, paper OMAE2022-78184, V002T02A059.

5.3.182 Sobral, J. (2022), "Understanding asset management maturity level in industrial organizations", *8th International Conference on Industrial Engineering*, 29-30 September, Belgrade, Serbia, pp. 58-61.

5.3.183 Sobral, J. (2022), "Development of a model to assess total productive maintenance in an industrial facility", *8th International Conference on Industrial Engineering*, 29-30 September, Belgrade, Serbia, pp. 62-65.

5.5 PhD Dissetations

5.5.1 Teixeira, A.P. (2007), "Risk and Reliability based Design of Marine Structures *(in Portuguese)*", Instituto Superior Técnico, Lisboa.

5.5.2 Zayed, A. (2010), "Time Variant Reliability Assessment of Deteriorated Ship Structures Accounting for Inspections", Instituto Superior Técnico, Lisboa.

5.5.3 Antao, P. (2011), "Human Factors in the Safety of the Maritime Transportation *(in Portuguese)*", Instituto Superior Técnico, Lisboa.

5.5.4 Agua, P.B. (2012), "Conceptualization of a Strategey for the Defence Industry - the case of Portugal *(in Portuguese)*", Instituto Superior Técnico, Lisboa.

5.5.5 Gaspar, B. (2012), "Reliability of Marine Structures Based on Implicit Methods", Instituto Superior Técnico, Lisboa.

5.5.6 Silva, C.A. (2013), "Modelling the maritime transportation by containerships", Instituto Superior Técnico, Lisboa.

5.5.7 Gaspar, J.M.A (2013), "A contribution to understand ill-defined requirements of in-car interfaces", Instituto Superior Técnico, Lisboa.

5.5.8 Corak, M. (2013), "Probabilistic Combination of Wave and Whipping Bending Moments on Ship Structure", Instituto Superior Técnico, Lisboa.

5.5.9 Carreira, A.M.P. (2018), "Network-based Approach to the Competitiveness of Container Port Terminals", Instituto Superior Técnico, Lisboa.

5.5.10 Yeter, B. (2020), "Risk-based Structural Assessment of Fixed Offshore Wind Turbines", Instituto Superior Técnico, Lisboa.

5.5.11 Silveira, P.A.M. (2021), "Ship collision risk assessment based on AIS data and expert opinions", Instituto Superior Técnico, Lisboa.

5.6 MSc Dissertations

5.6.1 Guedes da Silva, A. (1995), "Reliability of Marine Structural Components, University of Glasgow, United Kingdom.

5.6.2 Teixeira, A. P. (1998), "Reliability of Marine Structures in the Context of Risk Based Design", University of Glasgow, United Kingdom.

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