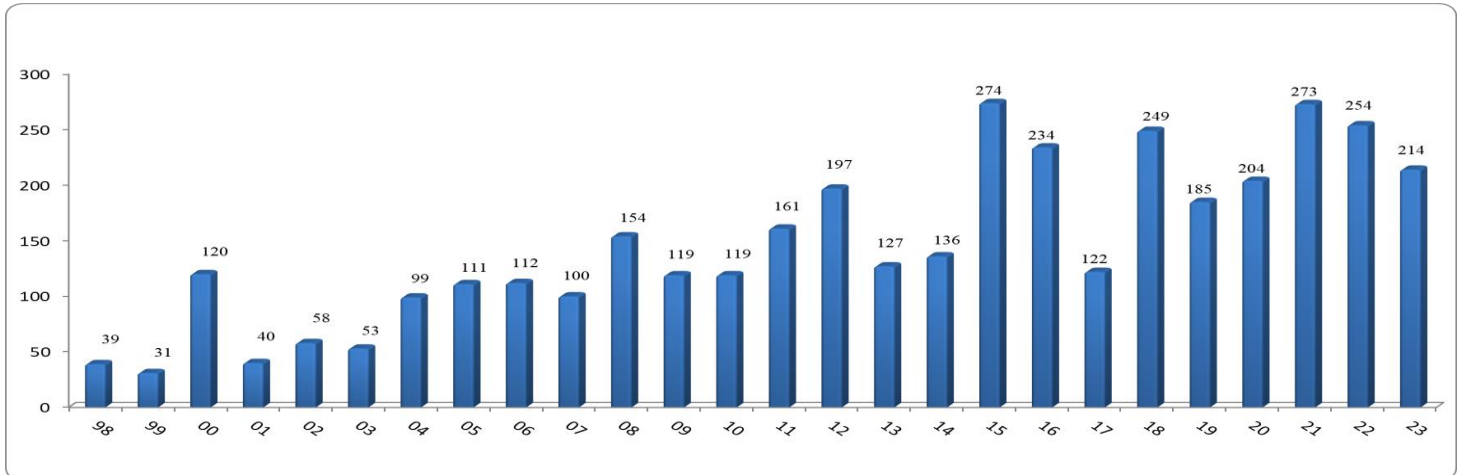


## LIST OF PUBLICATIONS

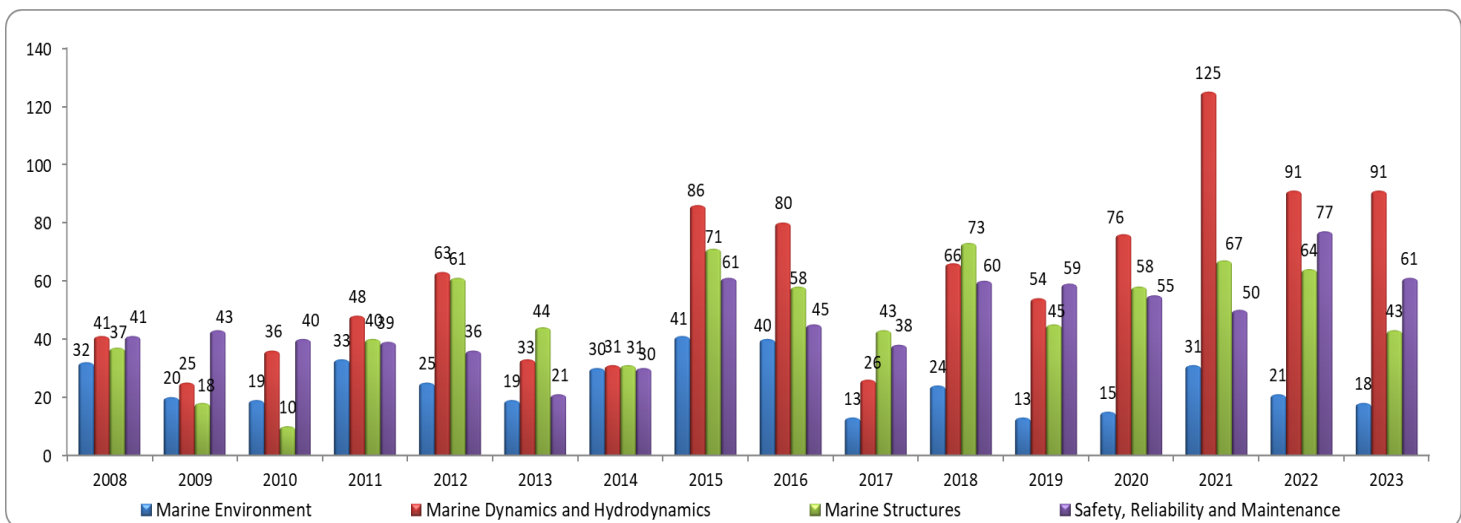
**CENTEC – Centre for Marine Technology and Ocean Engineering,  
Instituto Superior Técnico, University of Lisbon, Portugal**

### Publications Statistics

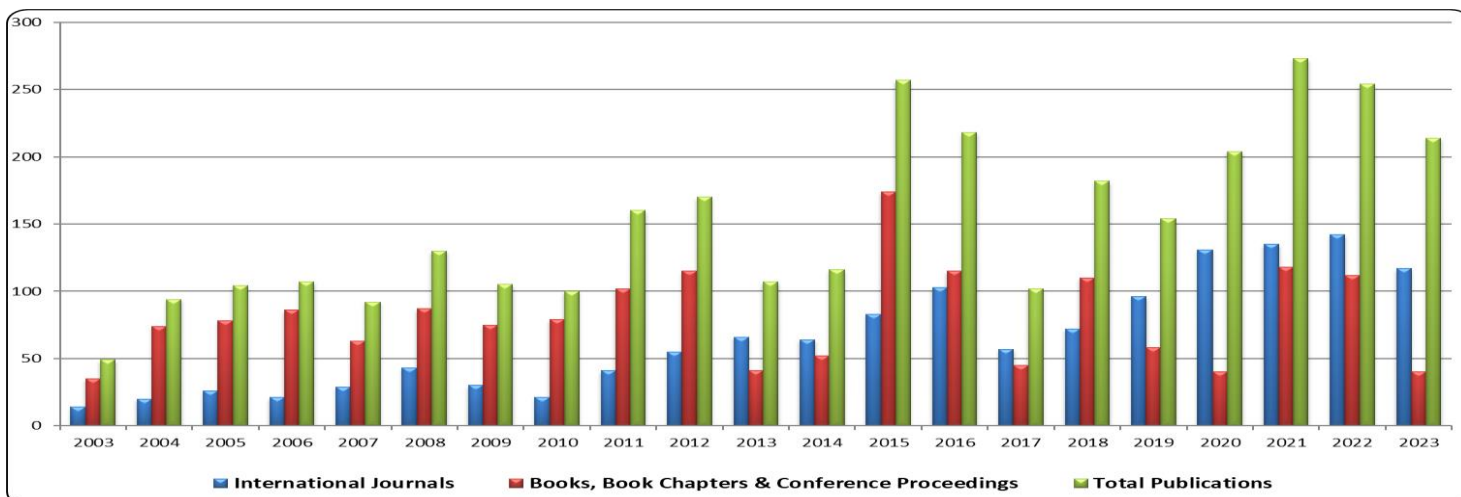
**CENTEC - Total Number of Publications per Year (1998-2023)**



**CENTEC - Annual Publications by Research Group (2008-2023)**



**CENTEC - Number of Papers by Type of Publication (2003-2023)**



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## CENTEC – Centre for Marine Technology and Engineering

### Instituto Superior Técnico, Technical University of Lisbon

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## 1.5 PhD Dissertations

- 1.5.1 Izquierdo, P. (2003), “Wave Modelling Fields by Remote Sensing”, Universidad e Las Palmas Gran Canaria, 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 Steepness”, 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.

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- 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”, Instituto Superior Técnico, Lisboa.
- 1.6.5 Pilar, P. (2002), “Fifteen Years Wave Hindcast on the Exclusive Economic Zone of Portugal, Instituto Superior Técnico, Lisboa.
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- 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 Orthogonal Functions (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.
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- 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. McCullea, 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 Arquipélago”, 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.
- 1.6.19. Silva, L.Z.M. (2019), “Influence of spectra model on the ship response”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 1.6.20. Schneider, M.V. (2023), “Wave energy assessment for the Atlantic Coast of Morocco”, 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.
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- 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.
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- 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.
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- 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.
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- 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.
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- 2.6.40 Perlino, G. (2020), “On Gyroscopic Roll Stabilization of Ships”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.
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- 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 device with two different 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.
- 2.6.49 Lopes Nunes, N.G.C.N. (2023), “Numerical Study of Dynamics of a Boat Equipped with a Rigid Sail”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.

### 3. Marine Structures

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- 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.
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- 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.
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## **5 SAFETY AND LOGISTICS OF MARITIME TRANSPORTATION**

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## 5.5 PhD Dissertations

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- 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 Strategy 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

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- 5.6.2 Teixeira, A. P. (1998), “Reliability of Marine Structures in the Context of Risk Based Design”, University of Glasgow, United Kingdom.
- 5.6.3 Ferreira, S.A. (1999), “Probabilistic Assessment of Tankers Oil Outflow”, University of Glasgow, United Kingdom.
- 5.6.4 Antão, P. (2000), “Methodology of Analysis of Marine Accidents”, University of Heriot-Watt, United Kingdom.
- 5.6.5 Barata, J. (2001), “Monte Carlo Simulation Modelling of Deteriorating Systems Maintenance”, Instituto Superior Técnico, Lisboa.
- 5.6.6 Costa, D. (2006), “Influence of the organizational factors to potential occurrence of violations in the civil construction (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.
- 5.6.7 Lima, P. (2006), “Professional Risks in a Hospital (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.
- 5.6.8 Almeida, T. (2007), “Analysis and Modelling of Accidents at Work in the Portuguese Fishing Industry (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.
- 5.6.9 Ferreira, S.A. (2008), “Simulation of the effects of different equipment maintenance policies (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.
- 5.6.10 Varela, S. (2008), “System to monitoring the safety of fishing vessels subject to wave loads (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.
- 5.6.11 Braga, P.R. (2009), “Analysis and risk management in insurance subscriptions in the construction sector (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.
- 5.6.12 Fialho, T. (2009), “Analysis and Modelling of Occupational Accidents in the Portuguese Construction Sector (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.
- 5.6.13 Silveira, P.A.M. (2010), “Risk analysis of the maritime traffic in the Portuguese continental coast (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.
- 5.6.14 Pais, H.M.M. (2011), “Risk management assessment on construction, repairs and naval conversion projects (*in Portuguese*)”, Instituto Superior Técnico, Lisboa.
- 5.6.15 Santos, A.M.P. (2012), Analysis of investment policies for the Port of Lisbon with a System Dynamics model”, Instituto Superior Técnico, Lisboa.
- 5.6.16 Makouei, S.H. (2013), “Reliability analysis of the longitudinal structure of a double hull tanker”, Instituto Superior Técnico, Lisboa.
- 5.6.17 Grilo, J. (2014), “Avaliação de desempenho de terminais de carga geral fraccionada: Aplicação do método DEA”, Instituto Superior Técnico, Lisboa.
- 5.6.18 Guia, J. (2014), “Risk based structural design of double hull tankers”, Instituto Superior Técnico, Lisboa.
- 5.6.19 Merino da Silva, D. (2014), “Analysis of river/sea transportation of iron ore bulk on the Douro River”, Instituto Superior Técnico, Lisboa.
- 5.6.20 Miranda, J. (2014), “Structural reliability analysis with implicit limit state functions”, Instituto Superior Técnico, Lisboa.
- 5.6.21 Nuñez, P.F.K. (2014), “Reliability and availability analysis of ship systems”, Instituto Superior Técnico, Lisboa.

- 5.6.22 Pinheiro, I.S. (2015), “Analysis and modelling of the contribution of human factors in maritime accidents”, Instituto Superior Técnico, Lisboa.
- 5.6.23 Mainardi, A. (2016), “Forecasting cargo throughput in Portuguese ports”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.24 Mendonza Moyano, S. (2016), “Design of a Logistic Hub Platform for Oil & Gas Production Fields (Projecto de uma Plataforma Logística)”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.25 Palência, O. (2016), “Modelling of deterioration processes in ship structures through dynamic Bayesian network”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.26 Silva, S. (2016), “Análise de Acidentes de Incêndio e Explosão em Navios”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.
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- 5.6.28 Fernandes, J.P. (2017), “Feasibility of an intermodal transport solution towards northern Europe using Portuguese ports”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.29 Lotovskyi, E. (2018), “Availability analysis of an offshore oil and gas production system by Petri Nets”, MSc in Naval Architecture and Marine Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.30 Barreto, F.G. (2018), “Simulation of offshore logistics with fuel supply hubs”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.31 Bittencourt, A.P.B. (2018), “Optimization of offshore supply vessel’s fleet size, mix and routing”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.32 Busnardo, E.B. (2018), “Simulation of the operation of a fleet of offshore supply vessels”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.33 Costeira, M. (2018), “Reliability modelling of subsea production equipment”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.34 Gago, J. (2018), “Prediction and simulation of trajectories of drifting objects off the Coast of Portugal”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.35 Loureiro, H.F.F. (2018), “A numerical tool for the planning of container ship fleets”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.36 Schneider, K. (2018), “Risk and reliability of a subsea system for oil production”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
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- 5.6.38 Soares, C.C. (2018), “Numerical Study on the Effect of Concrete Mattresses on the Buckling and Ovalization of Subsea Pipelines”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.39 Zimmermann, D.C. (2018), “Availability assessment of an offshore oil and gas-to-wire production concept”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.40 Ramalho, M.M. (2019), “External cost in short sea shipping based intermodal transport chains”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.41 Bastoulis, (2019), “A. Bayesian Network Modelling of Port State Control Inspections”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.42 Lemos, M.L.C.V. (2019), “Analysis of Maritime Safety and Accidents”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.43 Marques, J.M.C. (2019), “Economic assessment of LNG bunkering in the Portuguese Coast and Atlantic Islands”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.

- 5.6.44 Rascão, M. (2019), “Short sea shipping feasibility study for the carriage of RoRo cargo to Northern European ports”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.45 Alves, R.L.C. (2020), “Cruise ship itinerary design”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.46 Escabelado, J. (2020), “Simulation of short sea shipping based intermodal transport chains”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.47 Lee, B. (2020), “A decision support tool for search and rescue operations off the continental coast of Portugal”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.48 Santos, L.B.S. (2020), “Container terminal hinterland characterization in the Portuguese port system”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.49 Sun, SL. (2020), “Quantative assessment of ship collision risk influencing factors”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.50 Teixeira, V.V. (2020), “Network routing applied to intermodal transportation”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.51 Braz, D.A.C. (2021), “Monte-Carlo simulation applied to cruise ship itinerary selection”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.52 Madureira, R.M.L. (2021), “A data-driven approach for prediction and optimization of ship fuel consumption”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.53 San Martino, N. (2021), “Preliminary analysis of the economic feasibility of maintenance services for superyachts in Portugal”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.54 Silva, P. (2021), “Operational emissions prediction based on specific technical data of different ship types”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.55 Trofim, D. (2021), “Forecasting Portuguese ports throughput (2021-2030)”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.56 Cardoso Neto, V.G. (2022), “Assessment of the potential of short sea shipping to support Portuguese foreign trade”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.57 Abreu, H. (2022), “External Costs as a Tool to Promote Short-Sea-Shipping”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.58 Braga, J.P. (2022), “Development of a data-based platform for maritime traffic analysis using AIS data”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.59 Gomes, J.C. (2022), “Methodology for calculating cruise ship capital, operating and voyage costs”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.60 Duarte, M. (2022), “Assessing the impact of transportation uncertainties in Short Sea Shipping”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.
- 5.6.61 Pereira Coutinho, L.G.C.C. (2023), “Estimating cargo transportation demand in Short Sea Shipping”, MSc in Naval Architecture and Ocean Engineering, Instituto Superior Técnico – IST, Lisboa.