

Spyros E Hirdaris

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,407
citations

394421

19
h-index

330143

37
g-index

54
all docs

54
docs citations

54
times ranked

736
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A comparative method for scaling SOLAS collision damage distributions based on ship crashworthiness – application to probabilistic damage stability analysis of a passenger ship. <i>Ships and Offshore Structures</i> , 2022, 17, 1498-1514. | 1.9 | 15 |
| 2 | Accident susceptibility index for a passenger ship-a framework and case study. <i>Reliability Engineering and System Safety</i> , 2022, 218, 108145. | 8.9 | 26 |
| 3 | Comparison of numerical approaches for structural response analysis of passenger ships in collisions and groundings. <i>Marine Structures</i> , 2022, 81, 103125. | 3.8 | 17 |
| 4 | A predictive analytics method for maritime traffic flow complexity estimation in inland waterways. <i>Reliability Engineering and System Safety</i> , 2022, 220, 108317. | 8.9 | 70 |
| 5 | Digitalization of High Speed Craft Design and Operation Challenges and Opportunities. <i>Procedia Computer Science</i> , 2022, 200, 566-576. | 2.0 | 2 |
| 6 | Development of Numerical Modelling Techniques for Composite Cylindrical Structures under External Pressure. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 466. | 2.6 | 5 |
| 7 | A Fully Coupled Time-Domain BEM-FEM Method for the Prediction of Symmetric Hydroelastic Responses of Ships with Forward Speed. <i>Shock and Vibration</i> , 2022, 2022, 1-18. | 0.6 | 1 |
| 8 | Uncertainties in long-term wave modelling. <i>Marine Structures</i> , 2022, 84, 103217. | 3.8 | 20 |
| 9 | Benchmark study of global linear wave loads on a container ship with forward speed. <i>Marine Structures</i> , 2022, 84, 103162. | 3.8 | 17 |
| 10 | A simplified fluid structure interaction model for the assessment of ship hard grounding. <i>Journal of Marine Science and Technology</i> , 2022, 27, 695-711. | 2.9 | 5 |
| 11 | A two-way coupled FSI model for the rapid evaluation of accidental loads following ship hard grounding. <i>Journal of Fluids and Structures</i> , 2022, 112, 103589. | 3.4 | 8 |
| 12 | A framework for onboard assessment and monitoring of flooding risk due to open watertight doors for passenger ships. <i>Reliability Engineering and System Safety</i> , 2022, 226, 108666. | 8.9 | 11 |
| 13 | A machine learning method for the evaluation of ship grounding risk in real operational conditions. <i>Reliability Engineering and System Safety</i> , 2022, 226, 108697. | 8.9 | 57 |
| 14 | The influence of obliquely perforated dual-baffles on sway induced tank sloshing dynamics. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2021, 235, 905-920. | 0.5 | 6 |
| 15 | The influence of fluid structure interaction modelling on the dynamic response of ships subject to collision and grounding. <i>Marine Structures</i> , 2021, 75, 102875. | 3.8 | 28 |
| 16 | Ship Dynamics. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 105. | 2.6 | 1 |
| 17 | Special Issue on the Recent Advances in Safe Maritime Operations under Extreme Conditions. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5789. | 2.5 | 0 |
| 18 | A Big Data Analytics Method for the Evaluation of Ship - Ship Collision Risk reflecting Hydrometeorological Conditions. <i>Reliability Engineering and System Safety</i> , 2021, 213, 107674. | 8.9 | 116 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | A method for the direct assessment of ship collision damage and flooding risk in real conditions. Ocean Engineering, 2021, 237, 109605. | 4.3 | 80 |
| 20 | The influence of flexible fluid structure interactions on sway induced tank sloshing dynamics. Engineering Analysis With Boundary Elements, 2021, 131, 206-217. | 3.7 | 11 |
| 21 | NON LINEAR ANALYSIS OF SHIP MOTIONS AND LOADS IN LARGE AMPLITUDE WAVES. Transactions of the Royal Institution of Naval Architects Part A: International Journal of Maritime Engineering, 2021, 153, . | 0.1 | 0 |
| 22 | A framework to model the STPA hierarchical control structure of an autonomous ship. Safety Science, 2020, 132, 104939. | 4.9 | 58 |
| 23 | Springing Analysis of a Passenger Ship in Waves. Journal of Marine Science and Engineering, 2020, 8, 492. | 2.6 | 9 |
| 24 | Remote piloting in an intelligent fairway – A paradigm for future pilotage. Safety Science, 2020, 130, 104889. | 4.9 | 18 |
| 25 | Determination of the dynamic critical maneuvering area in an encounter between two vessels: Operation with negligible environmental disruption. Ocean Engineering, 2020, 213, 107709. | 4.3 | 48 |
| 26 | A 6-DoF maneuvering model for the rapid estimation of hydrodynamic actions in deep and shallow waters. Ocean Engineering, 2020, 218, 108103. | 4.3 | 37 |
| 27 | Comparison of nonlinear one- and two-way FFSI methods for the prediction of the symmetric response of a containership in waves. Ocean Engineering, 2020, 203, 107179. | 4.3 | 30 |
| 28 | The Risks of Remote Pilotage in an Intelligent Fairway – preliminary considerations. , 2020, , 48-57. | | 3 |
| 29 | An initial hierarchical systems structure for systemic hazard analysis of autonomous ships. , 2020, , 140-153. | | 2 |
| 30 | Coupled CFD and FEA to Predict the Dynamic Structural Response of Modern Cruise Ship Deck Outfitting due to Wind-Induced Vibrations. , 2020, , . | | 1 |
| 31 | Comparison of system modelling techniques for autonomous ship systems. , 2020, , 125-139. | | 1 |
| 32 | Analysis of a Collision-Energy-Based Method for the Prediction of Ice Loading on Ships. Applied Sciences (Switzerland), 2019, 9, 4546. | 2.5 | 10 |
| 33 | Structural response analysis of slamming impact on free fall lifeboats. Marine Structures, 2017, 54, 112-126. | 3.8 | 17 |
| 34 | The influence of nonlinearities on the symmetric hydrodynamic response of a 10,000 TEU Container ship. Ocean Engineering, 2016, 111, 166-178. | 4.3 | 34 |
| 35 | Design safety margin of a 10,000 TEU container ship through ultimate hull girder load combination analysis. Marine Structures, 2016, 46, 78-101. | 3.8 | 42 |
| 36 | Springing effect on the fatigue life of an 8000TEU container ship. , 2015, , 291-298. | | 1 |

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|----|--|-----|-----------|
| 37 | Considerations on the potential use of Nuclear Small Modular Reactor (SMR) technology for merchant marine propulsion. Ocean Engineering, 2014, 79, 101-130. | 4.3 | 82 |
| 38 | Stochastic uncertainty modelling for ship design loads and operational guidance. Ocean Engineering, 2014, 86, 47-57. | 4.3 | 37 |
| 39 | Loads for use in the design of ships and offshore structures. Ocean Engineering, 2014, 78, 131-174. | 4.3 | 251 |
| 40 | Risk analysis of damaged ships – a data-driven Bayesian approach. Ships and Offshore Structures, 2012, 7, 333-347. | 1.9 | 53 |
| 41 | Global wave load combinations by cross-spectral methods. Marine Structures, 2012, 29, 131-151. | 3.8 | 16 |
| 42 | Time Domain Analysis of Springing and Whipping Responses Acting on a Large Container Ship. , 2011, , . | | 3 |
| 43 | A nonlinear approach to the calculation of large amplitude ship motions and wave loads. , 2011, , 249-255. | | 1 |
| 44 | Wave loads and flexible fluid-structure interactions: current developments and future directions. Ships and Offshore Structures, 2010, 5, 307-325. | 1.9 | 27 |
| 45 | Hydroelasticity of ships: Recent advances and future trends. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2009, 223, 305-330. | 0.5 | 30 |
| 46 | A conforming unified finite element formulation for the vibration of thick beams and frames. International Journal for Numerical Methods in Engineering, 2005, 62, 579-599. | 2.8 | 11 |
| 47 | Two- and three-dimensional hydroelastic modelling of a bulker in regular waves. Marine Structures, 2003, 16, 627-658. | 3.8 | 64 |
| 48 | Loads on ships and offshore structures. Ships and Offshore Structures, 0, , 1-1. | 1.9 | 1 |
| 49 | A machine learning method for the evaluation of hydrodynamic performance of floating breakwaters in waves. Ships and Offshore Structures, 0, , 1-15. | 1.9 | 5 |