

## Special Issue

# Ship Dynamics for Performance Based Design and Risk Averse Operations

### Message from the Guest Editors

In this Special Issue, we invite high-value original research publications in the following consolidated research topics and emerging subjects:

- Wave loads and dynamic response with emphasis on hydroelastic methods, nonlinear hydrodynamics, and CFD methods
- Marine cybernetics with focus on motion suppression of ships and speed boats, navigation monitoring unified maneuvering/seakeeping, and control methods with a focus on operational performance
- Validation methods by model tests and full-scale measurements using state of the art methods and monitoring equipment
- Combined strength and stability with a focus on damaged conditions and the influence of crashworthiness. Papers that promote emergency response methods and future SOLAS requirements are especially welcome.
- Intact stability and resonance phenomena with a focus on the use of nonlinear methods within the context of future IMO standards.
- Risk management methods for the assurance of safety in ship design and operations
- The role of emerging technologies for ship performance monitoring

### Guest Editors

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### Deadline for manuscript submissions

closed (30 April 2020)



## Journal of Marine Science and Engineering

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Impact Factor 2.8  
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## About the Journal

### Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (JMSE, ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi  
School of Engineering, The UWA Oceans Institute, The University of  
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