

Special Issue

Ship Performance in Actual Seas

Message from the Guest Editors

The analysis of ship performance in actual sea conditions involves studying how vessels interact with factors such as wave height, wind forces, currents, and environmental elements to understand their influence on operations, efficiency, safety, and overall functionality. This Special Issue intends to publish the latest progress and achievements in research regarding the performance prediction and analysis of ship performance in actual sea conditions based on sea trial results, on-board monitoring systems, and real-time data, CFD, ML, and hybrid techniques. We invite papers on topics including, but not limited to, the following:

- Full-scale resistance and propulsion in calm water and in waves;
- Performance prediction and analysis with combined CFD, EFD, on-board data, AI, ML, etc.;
- Motion and derived responses in waves;
- Ship hydrodynamics in wind, waves, and/or in restricted/confined waters;
- Intact stability and damaged stability in actual sea environments;
- Scale effects and full-scale ship hydrodynamics;
- Energy Efficiency Existing Ship Index (EEXI) and Carbon Intensity Index (CII) assessment and ship rating strategy improvements.

Guest Editors

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Deadline for manuscript submissions

closed (5 August 2025)



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About the Journal

Message from the Editor-in-Chief

Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312) focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).