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.

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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.

Editor-in-Chief

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