

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

Prof. Dr. Simone Mancini

1. Department of Industrial Engineering, University of Naples "Federico II", 80138 Napoli, NA, Italy

2. Department of Hydro and Aerodynamics, Force Technology, 2800 Kgs. Lyngby, Denmark

Prof. Dr. Abbas Dashtimansh

The Royal Institute of Technology (KTH), Stockholm, Sweden

Deadline for manuscript submissions

closed (5 August 2025)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/203075

*Journal of Marine Science and
Engineering*

Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

jmse@mdpi.com

mdpi.com/journal/

jmse





Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



[mdpi.com/journal/
jmse](https://mdpi.com/journal/jmse)



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

Prof. Dr. Charitha Pattiaratchi
School of Engineering, The UWA Oceans Institute, The University of
Western Australia, Perth, WA 6009, Australia

Author Benefits

High Visibility:

indexed with Scopus, SCIE (Web of Science), Ei
Compendex, GeoRef, Inspec, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean
Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 15.6 days after
submission; acceptance to publication is undertaken in 1.9
days (median values for papers published in this journal in
the first half of 2025).