

Special Issue

Ship Hydrodynamics and Wave Resistance in Ship Design

Message from the Guest Editor

Ship hydrodynamics and the management of wave resistance are pivotal aspects of modern ship design, influencing vessel performance, fuel efficiency, and environmental sustainability. and the editorial team invite researchers and experts in the field to submit original manuscripts addressing the following topics: Hydrodynamic analysis and modeling techniques for ship design

Wave resistance reduction strategies and optimization methods

Numerical simulations and computational fluid dynamics (CFD) in ship hydrodynamics

Ship propulsion systems and their impact on hydrodynamic performance

Application of machine learning and AI in ship design

We encourage submissions that demonstrate interdisciplinary approaches, combining principles from naval architecture, fluid dynamics, materials science, computational modeling, data driven modeling and machine learning. Manuscripts should present novel research findings, methodologies, or technological innovations that contribute to enhancing our understanding of ship hydrodynamics and wave resistance in ship design.

Guest Editor

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Deadline for manuscript submissions

closed (25 September 2024)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/201749

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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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Author Benefits

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

Rapid Publication:

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).