

Special Issue

Advances in Marine Computational Fluid Dynamics

Message from the Guest Editors

Marine computational fluid dynamics (CFD) is a pivotal tool in the design and analysis of ships, underwater vehicles, offshore structures, and marine energy devices. This Special Issue invites researchers, engineers, and scholars to contribute original research articles, review papers, and case studies that push the boundaries of marine CFD. Topics of interest include, but are not limited to, the following:

- Advanced simulation techniques for turbulent flows, wave dynamics, fluid–structure interactions, and ship hydrodynamics;
- CFD applications in the conceptualization, design, and optimization of hull shapes, propellers, marine renewable energy devices, and other marine structures;
- Environmental impact assessments using CFD include wave and wind impacts on marine infrastructure, oil spill modeling, marine ecosystem protection, and underwater noise pollution;
- Integration of CFD with other emerging technologies, such as artificial intelligence, data assimilation, machine learning, and digital twins, will revolutionize marine engineering solutions;
- Case studies on the successful applications of CFD in maritime industry projects.

Guest Editors

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Deadline for manuscript submissions

closed (1 February 2026)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/203959

*Journal of Marine Science and
Engineering*

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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).