

Special Issue

Advances in Marine Computational Fluid Dynamics and Wave Studies

Message from the Guest Editor

In the world of advancing computer technology, Computational Fluid Dynamics (CFD) has become an attractive tool for gaining valuable insight into hydrodynamic characteristics. Over the last few decades, the CFD for marine engineering applications has been rapidly gaining popularity. The Special Issue covers the further research of CFD applications and developments in marine environments. We are pleased to inform researchers in the fluid mechanics and water-wave communities that we are launching a high-impact Special Issue regarding the advanced topic Advances in Marine Computational Fluid Dynamics and Wave Studies. At present, the research of this topic is very important in science, engineering and technology. The topics covered by this Special Issue include but are not limited to: applications of CFD on naval architecture, ocean, marine engineering, CFD-combined method on multiphase flows and applications of novel computational methods on CFD, or other relevant topics. Keywords: two-phase flows; unsteady flows; fluid–solid interaction; mesh-free methods; fast multipole expansion method; novel numerical method; fluid/structure interaction

Guest Editor

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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).