

Special Issue

CFD Analysis in Ocean Engineering

Message from the Guest Editors

To accommodate our ever-increasing energy needs, the exploration of oil and natural gas is marching towards the deep sea and tremendous efforts have been made towards developing viable renewable energy sources from the ocean, including wind, tidal current and waves. It is utterly important and challenging to guarantee the safety of offshore structures constructed in the ocean for the purpose of extracting resources and energy from the deep sea. Computational Fluid Dynamics (CFD) is playing an increasingly important role in fundamental and applied research in ocean engineering. This Special Issue aim to collect articles that highlight the research in ocean engineering through CFD analysis. It covers a variety of topics including, but not limited to, wave dynamics, tidal current, offshore fluid–structure interaction, wave and tidal energy and ship hydrodynamics. Papers that report new research methods, fundamental fluid mechanics or applied research outcomes in relevant areas are welcome.

Guest Editors

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Deadline for manuscript submissions

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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).