

## Special Issue

# Marine Propulsion Systems: Hydrodynamics, Numerical Simulation, and Intelligent Control

### Message from the Guest Editor

Suitable propulsors should be selected for the propulsion system of ships that co-operate with motors to reach high levels of performance in a variety of sea environments (calm water, sea states, etc.). A numerical and/or the experimental analysis of the physical phenomena associated with the interactions between propulsion systems and water provides evidence for, and drives the designers of these systems to, the proper selection of the geometry and versatility of the system. State-of-the-art CFD methods, in combination with potential ones for the design, enable the development of intricate models to simulate the physics of the complex phenomena encountered. Furthermore, Machine Learning (ML) and bio-mimetic methods support the optimization of the design and the operation of ships. This Special Issue aims to highlight the latest research and innovations that contribute to the analysis, design, and operation of marine propulsion systems for commercial cargo ships, high-speed craft, and submarines.

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### Guest Editor

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### Deadline for manuscript submissions

20 October 2026



## 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.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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