

Special Issue

Offshore Structures and Hydrodynamic Modeling

Message from the Guest Editors

Over the past half-century, ocean engineering has witnessed its golden age. There are magnificent offshore structures being developed and built to explore offshore oil and gas. More recently, engineers and researchers have been focusing on designing offshore renewable devices to explore these oceanic resources in a sustainable way. All of these designs cannot be achieved without the development of precise numerical models of such structures under marine environments. The purpose of this Special Issue is, therefore, to promote research on offshore structure design, as well as to publish cutting-edge work on the structural and hydrodynamic modeling of offshore structures. The topic of this Special Issue will include but not be limited to:

- novel designs of offshore structures, including oil and gas platforms, renewable energy devices, marine surface vehicles, underwater vehicles, aquaculture facilities, and very large floating structures;
- structural analysis of the above marine structures;
- hydrodynamic modeling of floating bodies;
- linear and nonlinear wave loads;
- experimental test of marine structures;
- offshore wind turbine modeling;
- ship hydrodynamics.

Guest Editors

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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).