

Special Issue

Advances in Structural and Dynamic Analysis of Ships and Marine Structures

Message from the Guest Editors

This Special Issue seeks to consolidate research on both conventional and emerging vessel types, including smart ships, autonomous vessels, offshore platforms, and cryogenic carriers for LNG, LCO₂, and LH₂. By highlighting innovative design, analysis, and monitoring approaches, this Special Issue aims to provide insights that enhance safety, reliability, and efficiency in modern ship and marine structure operations. The scope of this Special Issue includes structural integrity, fatigue and fracture, collision and grounding effects, fluid–structure interaction, and hydroelasticity under complex loading conditions. Contributions that present advanced methodologies, such as digital twins, real-time structural health monitoring (SHM), and AI-driven design and diagnostics, are highly encouraged. This Special Issue welcomes both theoretical and applied studies, including numerical modeling, experimental validation, and case studies. The aim of this Special Issue is to provide a comprehensive platform for sharing innovative solutions that enhance the safety, performance, and sustainability of contemporary ship and marine structure design.

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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