Special Issue

Advanced Studies in Marine Structures

Message from the Guest Editor

This Special Issue addresses pressing challenges such as climate change-induced extreme weather, aging infrastructure, and the need for eco-friendly solutions in marine engineering. By focusing on innovations in structural integrity, material science, and computational modeling, it aims to enhance the safety, efficiency, and longevity of ships, offshore platforms, subsea pipelines, and renewable energy systems. The integration of emerging technologies—such as artificial intelligence, digital twins, and additive manufacturing—into marine structural studies offers transformative potential for predictive maintenance, real-time monitoring, and adaptive design. Furthermore, research on sustainable materials and life-cycle assessment aligns with global decarbonization goals, reducing environmental impacts while ensuring cost-effectiveness.

- marine structures
- offshore engineering
- structural integrity
- hydrodynamic
- sustainable design
- computational mechanics
- risk assessment
- renewable energy systems
- additive manufacturing in marine applications
- AI-driven simulations
- digital twins

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The *Journal of Marine Science and Engineering* (*JMSE*; ISSN 2077-1312) is an international peer-reviewed open access journal which provides an advanced forum for studies related to marine science and engineering. The journal aims to provide scholarly research on a range of topics, including ocean engineering, chemical oceanography, physical oceanography, marine biology and marine geosciences. We invite you to publish in our journal sharing your important research findings with the global ocean community.

Editor-in-Chief

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