Special Issue

Fatigue Performance and Ultimate Strength of Ships and Marine Structures

Message from the Guest Editors

In an environment in which cyclic loading, corrosion, and potential accidents are constant threats, ensuring that ships and marine structures can withstand these stresses is crucial. By using innovative designs such as bioinspired structures, and integrating advanced materials such as alloys and composites, engineers face new challenges regarding the prediction of the fatigue life and ultimate strength. This Special Issue aims to explore recent advances in the design and analysis of new and existing ships and marine structures. The scope of this Special Issue includes, but is not limited to, the following topics:

- Fatigue and fracture analysis in marine environments
- Strength assessment of ships and marine structures
- Impact resistance of marine structures
- Innovative design of ships and marine structures
- Advanced materials and composites in shipbuilding
- Corrosion prevention and control
- Seismic and dynamic load analysis
- Structural health monitoring and maintenance strategies
- Risk assessment and safety management

Guest Editors

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Deadline for manuscript submissions

closed (28 February 2025)

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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.

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