

Special Issue

Advanced Analysis of Ship and Offshore Structures

Message from the Guest Editors

In the design of ship and offshore structures, a critical challenge lies in the accurate prediction of structural strength under various loading conditions—particularly impact, ultimate, and fatigue strength. This Special Issue seeks to present advances in the structural analysis of marine systems, and recent progress in the design and evaluation of ships and offshore platforms. Contributions are encouraged on the mechanical analysis of advanced materials—such as alloys and composites—and strength evaluations of innovative structural forms, including sandwich configurations, with the aim of achieving lightweight, safe, and cost-effective marine structures over their entire service life. Topics of interest include, but are not limited to, the following: strength assessment of ship structures; mechanical characterization of shipbuilding materials; design and optimization of lightweight architectures; impact strength of marine structures; ultimate strength of plates, stiffened panels, and hull girders; fatigue and fracture evaluation of ship structures; vibration and noise analysis; corrosion effects; steel and aluminum alloy structures; and composite structures.

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

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