Special Issue

Advances in Ship Hydroelasticity and Fluid–Structure Interaction

Message from the Guest Editor

As ships and offshore structures operate in increasingly demanding conditions, phenomena such as springing, whipping, slamming-induced vibrations, and complex wave-structure interactions should be concerned. These hydroelastic responses are pivotal for determining ultimate strength, fatigue life, operational safety, and passenger comfort. Furthermore, the integration of composite materials, flexible appendages, and renewable energy devices (e.g., flexible solar sails, bio-inspired propulsion) introduces new fluid-structure interaction paradigms. This special issue seeks to capture the state-of-the-art in ship hydroelasticity and fluid-structure interaction, highlighting breakthroughs in prediction, analysis, and design that address the challenges of modern marine structures. This special issue aims to bridge the gap between fundamental research and practical application, fostering interdisciplinary dialogue among hydrodynamicists, structural engineers, computational scientists, and experimentalists.

Guest Editor

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Deadline for manuscript submissions

15 August 2026

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/si/269746

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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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