

Special Issue

Recent Developments in Ship-Induced Hydrodynamics, Vessel-Generated Waves and Their Effects on Adjacent Shorelines

Message from the Guest Editors

The field of monitoring, modeling, and evaluating the effects of vessel-generated waves, either from large container-type vessels or faster recreational crafts, is constantly evolving. New technologies and techniques are being developed to improve our understanding of vessel performance, as well as the robustness and resilience of coastal protective structures. Human activities associated with the accelerating urbanization of coastal areas stresses and degrades the ecosystem in adjacent waterways. The impact is typically a multiscale process in which the accumulation of short-time perturbations is amplified and modulated by local circulation. For example, boat traffic creates an intermittent climate that enhances sediment transport, bank erosion, vegetation stripping, and ecosystem degradation. Understanding, modeling, and predicting such processes requires an effective characterization of a range of subprocesses that include human activity, small scale circulation, sediment transport, and morphodynamics, as well as their complex interaction.

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Deadline for manuscript submissions

closed (30 April 2024)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/159231

*Journal of Marine Science and
Engineering*

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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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