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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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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