

Special Issue

Wave Phenomena in Ship and Marine Hydrodynamics

Message from the Guest Editor

Wave phenomena in ship and marine hydrodynamics include flow interactions with marine vehicles. Some of the important topics are resistance and propulsion in waves, as well as controllability, wave loads, wave induced motions, energy performance, and marine renewable energy. A better understanding and application of the methods for the hydrodynamic analysis of ships and marine structures is of the utmost importance concerning their design and operation. This Special Issue aims to discuss the recent advances on wave hydrodynamics in ship and ocean engineering, and other related fields such as renewable marine energy. Specific topics include the following: Linear and nonlinear waves and currents in offshore and nearshore environment Computational wave hydrodynamics and numerical wave tank Wave-structure interactions and hydro-elasticity effects Environmental loads and underwater noise Resistance, propulsion, seakeeping, and maneuverability of ships in waves Hydrodynamics of renewable marine energy systems and ocean resources Experimental techniques for towing tank, wave flume and water basin Other aspects of wave hydrodynamics in ship and ocean engineering.

Guest Editor

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About the Journal

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.

Editor-in-Chief

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