Special Issue

Novel Numerical Methods for Complicated and Violent Flows

Message from the Guest Editors

Over the past several years, many novel numerical methods, such as overset grid techniques, adaptive refined mesh methods, Cartesian grid methods, meshless particle methods, high-order-spectral methods, as well as Lattice Boltzmann methods, have been developed to deal with the complicated and violent flows around marine structures, such as surface ships, submarines, offshore wind turbines, and floating platforms. All such complicated and violent flows are one of the most difficult topics in marine engineering because of the large span of spatial and temporal scales involved. A correct understanding and application of hydrodynamics on marine vehicles and structures are vital in their design and operation. The purpose of the invited Special Issue is to publish the most exciting research with respect to the above subjects and to provide a rapid turnaround time regarding reviewing and publishing, and to disseminate the articles freely for research, teaching, and reference purposes.

Guest Editors

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Prof. Dr. Qing Xiao

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Deadline for manuscript submissions

closed (30 May 2023)

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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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