Special Issue

Ship Hydrodynamics

Message from the Guest Editor

Experimental and computational ship hydrodynamics have developed rapidly over the last ten years. Experimental studies extended their measurements from integral to local flow variables and from captive/semi-captive to free-running self-propelled ships, providing data at different levels for the validation of computational solvers. Additionally, computational tools moved from inviscid flow and system-based solvers to complete physics-based methods, based on the Navier–Stokes equations. Investigations on nontraditional computational techniques have also recently been initiated. Open source codes have accelerated these developments, and a fully simulation-based design seems more feasible than ever. The advancements of HPC (High-Performance Computing) have enabled computational tools to investigate hydrophysics at multiscales by utilizing thousands of cores. Studies have been conducted on a wide range of topics, including bubbly wake flow, propulsion and cavitation, fluid–body dynamic interaction, hydroelasticity, intact and damaged stability, deterministic and scholastic optimization, extreme events, uncertainty quantification, and verification and validation.

Guest Editor

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Deadline for manuscript submissions

closed (15 December 2019)

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.7
CiteScore 4.4

mdpi.com/si/20253

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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.

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