



Ship Hydrodynamics

Guest Editor:

Dr. Hamid Sadat

Mechanical and Energy
Engineering Department,
University of North Texas,
Denton, TX 76203, USA

Deadline for manuscript
submissions:

closed (15 December 2019)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi
Oceans Graduate School and The
UWA Oceans Institute, The
University of Western Australia,
Perth, WA 6009, Australia

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed with Scopus, SCIE (Web of Science), GeoRef, Inspec, AGRIS, and other databases.

Journal Rank: JCR - Q1 (Engineering, Marine) / CiteScore - Q2 (*Civil and Structural Engineering*)

Contact Us

*Journal of Marine Science and
Engineering* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/jmse
jmse@mdpi.com
X@JMSE_MDPI