



Modeling of Ship Hydrodynamics

Guest Editor:

Dr. Shanti Bhushan

Department of Mechanical
Engineering, Mississippi State
University, Starkville, MS 39762,
USA

Deadline for manuscript
submissions:

closed (5 November 2020)

Message from the Guest Editor

Dear Colleagues,

Ship propulsion, seakeeping, and maneuvering involve complex flow physics which in turn involves flow separation and reattachment, wave breaking, turbulent boundary, and free-shear layers, to name a few. Computation fluid dynamics methods and models need to be validated to assess their predictive capability, and/or new methods and models need to be developed to improve efficiency of the solvers. In addition, considering the advances in high-performance computing, high-fidelity methods and models need to be developed and applied to understand the complex flow physics. This Special Issue invites original research papers in the field of ship hydrodynamics, including application of existing methods and models for complex geometries and flow conditions; uncertainty quantification of CFD predictions; validation of efficient grid generation methods, accurate turbulence, interface or wave-breaking models; and flow physics analysis using high-fidelity simulations.

Dr. Shanti Bhushan

Guest Editor





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