Special Issue

Hydrodynamic Analysis in Ship Design

Message from the Guest Editors

The proposed Special Issue aims to provide the interested reader and practitioner with an up-to-date review of the established and emerging HA methodologies and tools along with practical illustrations of their application in the fields of marine and ocean engineering. Specific topics include the following:

New methodologies in the analysis of resistance, propulsion, seakeeping and manoeuvrability of ships;
Ship–waves interaction;
Minimising hull resistance;
Increasing propulsion efficiency;
Modern methodologies of computational fluid dynamics for the estimation of ship performance;
Propulsion improving devices;
Hydrodynamic optimisation of ship hull under design constraints;
Novel CAD representations of the vessel's geometry;
High accuracy and locally refinable meshing tools;
Machine learning techniques for improving the performance of low-fidelity models.

Guest Editors

Prof. Dr. Panagiotis D. Kaklis
Department of Naval Architecture, Ocean and Marine Engineering, University of Strathclyde, Glasgow G4 0LZ, UK

Prof. Dr. C.G. Politis
Department of Naval Architecture, Faculty of Engineering, University of West Attica, 28 Ag. Spyridonos Street, 122 43 Athens, Greece

Deadline for manuscript submissions

closed (31 August 2020)

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Journal of Marine Science and Engineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jmse@mdpi.com

mdpi.com/journal/jmse

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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

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

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.6 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).