



Hydrodynamic Design of Ships

Guest Editor:

**Prof. Dr. Gregory
Grigoropoulos**

Department of Naval
Architecture and Marine
Engineering, National Technical
University of Athens, Athens,
Greece

Deadline for manuscript
submissions:

closed (15 February 2021)

Message from the Guest Editor

Dear Colleagues,

During the last two decades, the idea of designing a ship with satisfactory hydrodynamic performance in calm water and in waves evolved to the implementation of formal optimization strategies on existing (parent) hull forms to improve both the resistance and propulsion characteristics as well as its dynamic responses in actual seaways. Aiming to reduce operating expenses, the main target is to minimize the fuel consumption in all sailing conditions. Recently, the focus on environmental protection and the reduction of the emission of Green House Gases (GHG) as well as CO₂ formed a strong push towards the optimization of the operation of ships which is feasible mainly via the optimization of their hydrodynamic performance and the improvement of the performance of their main engines. The hull form optimization is based on a variety of hydrodynamic algorithms to evaluate the resistance, propulsion, and the seakeeping characteristics of the ship using potential or viscous flow calculations and it is finally evaluated by model tests.

Prof. Gregory Grigoropoulos

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Tony Clare

School of Natural and
Environmental Sciences,
Newcastle University, Newcastle
upon Tyne NE1 7RU, UK

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 (*Ocean Engineering*)

Contact Us

*Journal of Marine Science and
Engineering* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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