



Modelling and Optimisation of Ship's Fuel Consumption for Realistic Operational Conditions

Guest Editors:

**Prof. Dr. Apostolos
Papanikolaou**

School of Naval Architecture and
Marine Engineering, National
Technical University of Athens
(NTUA), Athens, Greece

Dr. Shukui Liu

School of Mechanical and
Aerospace Engineering, Nanyang
Technological University,
Singapore

Deadline for manuscript
submissions:

closed (30 September 2021)

Message from the Guest Editors

In this Special Issue, we invite high-value submissions dealing with original research outcomes within the following research topics and emerging subjects:

- Holistic modelling of a ship's resistance and propulsion system for realistic operational conditions;
- The optimisation of a ship's routing;
- Speed–power performance in low and high sea states;
- The effect of fouling on the hull and propeller;
- Ship design for future operational demands;
- Fleet maintenance (predictive, condition-based, or others);
- The analysis and management of fuel data;
- Sensor/monitoring technology;
- Business models to deal with the volatile operational environment.





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