# Special Issue

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

# 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.

### **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)



# Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0



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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

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## 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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