Special Issue

Ship Performance and Emission Prediction

Message from the Guest Editors

The international Maritime Organisation (IMO) adopted the 2023 Strategy on reduction in GHG emissions from ships. This strategy now incorporating a net-zero GHG emission goal to be achieved by or around 2050. In line with this updated strategy, transitioning from current situation, ship performance and emission prediction are essential for improving the efficiency and sustainability of maritime transport. This involves predicting various operational factors such as fuel consumption, speed and emission levels based on the ship's design, operational conditions and environmental factors. We are looking for papers dealing with disruptive solutions for improving ship performance and emission prediction, to demonstrate alignment with the IMO strategy. This includes data driven prediction models, computational fluid dynamics to predicts ship's hull and other design factor affecting fuel consumption, hybrid or alternative green fuels for future maritime transport systems, and use of renewable energy sources for the maritime propulsion systems and port facilities.

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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.

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