

Special Issue

Maritime Traffic Engineering

Message from the Guest Editor

The growing complexity and volume of global maritime traffic presents a series of significant challenges for the smooth operation of ports, the safe navigation of vessels, and the overall management of maritime safety. As international trade continues to expand, the pressure on shipping lanes and port infrastructures intensifies, making effective traffic management increasingly critical. Optimizing resources, enhancing port throughput, and ensuring safe navigation in congested waters have become essential goals for both researchers and practitioners. In response to these challenges, recent advancements in computational techniques, such as machine learning, artificial intelligence, and big data analytics, have revolutionized the field of maritime traffic engineering. Additionally, intelligent transportation systems (ITSs) and real-time monitoring technologies have paved the way for more dynamic and responsive traffic management systems. These innovations not only help to optimize traffic flow and reduce congestion but also play a vital role in improving vessel safety and environmental sustainability.

Guest Editor

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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

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