

# 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.

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### Guest Editor

Prof. Dr. Jingxian Liu

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### Deadline for manuscript submissions

closed (20 November 2025)



## Journal of Marine Science and Engineering

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## About the Journal

### Message from the Editor-in-Chief

*Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312)* focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

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### Editor-in-Chief

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