

## Special Issue

# AI for Navigation and Path Planning of Marine Vehicles

### Message from the Guest Editors

The increasing need for water-based navigation has created a strong demand for autonomous maritime surface vessels (AMSVs). The use of artificial intelligence (AI) for the development of autonomous maritime surface vessels (AMSVs) can effectively resolve the increasing need for water-based navigation and safety at the sea. An important motivation for autonomous functions and increased intelligence in ships is to improve the safety and efficiency of operations, and to decrease the environmental footprint. We would like to invite papers on the topic of “AI for Navigation and Path Planning of Marine Vehicles”. This includes, but is not limited to, the following:

- The use of AI for route planning, navigation, and optimisation;
- Collision avoidance algorithms;
- Sensors and data exploitation for path planning and collision avoidance;
- The development of autonomous vessels and autonomous maritime agents;
- The application of artificial intelligence, machine learning, and Big Data in maritime safety and smart shipping;
- Autonomous vessels

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### Guest Editors

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### Deadline for manuscript submissions

closed (25 January 2024)



## Journal of Marine Science and Engineering

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Impact Factor 2.8  
CiteScore 5.0



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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

Prof. Dr. Charitha Pattiaratchi

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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).