



AI for Navigation and Path Planning of Marine Vehicles

Guest Editors:

Dr. Sébastien Lafond

Faculty of Science and
Engineering, Åbo Akademi
University, Turku, Finland

Dr. Sepinoud Azimi

Department of Engineering
Systems and Services, Faculty of
Technology, Policy and
Management, Delft University of
Technology, Delft, The
Netherlands

Deadline for manuscript
submissions:
closed (25 January 2024)

Message from the Guest Editors

Dear Colleagues,

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





Editor-in-Chief

Prof. Dr. Tony Clare

School of Natural and
Environmental Sciences,
Newcastle University, Newcastle
upon Tyne NE1 7RU, UK

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed with Scopus, SCIE (Web of Science), GeoRef, Inspec, AGRIS, and other databases.

Journal Rank: JCR - Q1 (*Engineering, Marine*) / CiteScore - Q2 (*Ocean Engineering*)

Contact Us

*Journal of Marine Science and
Engineering* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/jmse
jmse@mdpi.com
X@JMSE_MDPI