



Track Planning with Automatic Obstacle Recognition and Avoidance for Maritime Vessels

Guest Editor:

Dr. Dimitrios V. Lyridis

Laboratory for Maritime
Transport, School of Naval
Architecture and Marine
Engineering, National Technical
University of Athens, 15780
Athens, Greece

Deadline for manuscript
submissions:

10 August 2024

Message from the Guest Editor

Dear Colleagues,

Machine learning and artificial intelligence (AI) have expanded to several fields, from robotics to economic models, and enabled real-time algorithms to help plan the course of autonomous, non-autonomous, manned, or unmanned aircraft and surface vehicles. Especially for maritime vessels, and with automation and digitalization becoming increasingly central in their operation, optimum routing, path planning, and collision (with vessels, large objects, or large marine mammals) avoidance in complex sea environments emerge as areas where AI can play a pivotal role; in addition, multi-objective optimization algorithms, fuzzy logic, and other mathematical tools can solve complex problems in a practical and applied manner for use by modern marine vehicles.

Dr. Dimitrios V. Lyridis
Guest Editor





an Open Access Journal by MDPI

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