

Special Issue

Autonomous Marine Vehicle Operations

Message from the Guest Editors

In recent years, there has been growing progress in autonomous marine vehicle operations, motivated by the impact on increasingly challenging scientific, economical, and environmental surface and underwater applications. The increasing demand for marine vehicles to undertake more complex tasks under the harsh marine environments poses new challenges which necessitate the development of advanced and intelligent operation approaches for single and multiple vehicles. This Special issue offers a collection of high-quality research articles contributing to topics on:

- Marine vehicle modelling and simulation technologies;
- Marine vehicle navigation and guidance;
- Path planning, motion control, obstacle detection, and avoidance;
- Learning-based control algorithms for marine systems;
- Swarm intelligence and control in marine vehicle applications;
- Distributed and cooperative marine vehicles and systems;
- Underwater vision and identification;
- Water surface object detection and recognition;
- Fault diagnosis design and fault tolerant control of ROV/UUV;
- Propulsion systems and energy efficiency;
- Maritime safety and risk assessment.

Guest Editors

Prof. Dr. Xiao Liang
Prof. Dr. Rubo Zhang
Dr. Xingru Qu

Deadline for manuscript submissions

closed (1 August 2023)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/158503

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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.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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Author Benefits

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indexed with Scopus, SCIE (Web of Science), Ei Compendex, GeoRef, Inspec, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Marine) / CiteScore - Q2 (Ocean Engineering)

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).