

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

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Dr. Xingru Qu

Deadline for manuscript submissions

closed (1 August 2023)



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About the Journal

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.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi
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Author Benefits

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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 15.6 days after
submission; acceptance to publication is undertaken in 1.9
days (median values for papers published in this journal in
the first half of 2025).