

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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Prof. Dr. Rubo Zhang

Dr. Xingru Qu

Deadline for manuscript submissions

closed (1 August 2023)



Journal of Marine Science and Engineering

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Impact Factor 2.7
CiteScore 4.4



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*Journal of Marine Science and
Engineering*

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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

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Author Benefits

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

Journal Rank:

JCR - Q1 (Engineering, Marine) / CiteScore - Q2 (Civil and Structural Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2024).