

# Special Issue

## Advances in Marine Autonomous Vehicles

### Message from the Guest Editors

Marine Autonomous Vehicles (MAVs)—including AUVs (Autonomous Underwater Vehicles), ASVs/USVs (Autonomous Surface Vehicles), and hybrid platforms—have emerged as a response to the inherent challenges of operating in the ocean: extreme pressure, low visibility, lack of GPS, and high economic/logistical costs. Recent progress in key technologies has accelerated MAV development:

- Advances in navigation and sensing;
- Improvements in energy systems;
- Growth of AI, robotics, and autonomy algorithms;
- Rising need for environmental monitoring, maritime security, and offshore industry automation.

Aims of MAV papers:

- Oceanographic research: physical, chemical, and biological data collection;
- Seafloor mapping and resource exploration: geology, mineral deposits, offshore wind site assessment;
- Military and security applications: mine detection, anti-submarine surveillance, infrastructure protection;
- Industrial operations: pipeline inspection, offshore infrastructure monitoring, underwater construction support;
- Environmental monitoring: HAB detection, greenhouse gas flux, pollution tracking;
- Disaster response and search and rescue: locating wrecks, assisting recovery operations.

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### Guest Editors

Dr. Mai The Vu  
Prof. Dr. Hyeung-Sik Choi  
Prof. Dr. Joonyoung Kim

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### Deadline for manuscript submissions

20 June 2026



## Journal of Marine Science and Engineering

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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.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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### Author Benefits

#### High Visibility:

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).