

## 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

Department of Unmanned Vehicle Engineering, Sejong University,  
Seoul 05000, Republic of Korea

Prof. Dr. Hyeung-Sik Choi

Division of Mechanical and Energy Systems Engineering, Korea  
Maritime and Ocean University, Busan, Republic of Korea

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### Deadline for manuscript submissions

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## Journal of Marine Science and Engineering

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[jmse@mdpi.com](mailto:jmse@mdpi.com)

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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.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi  
School of Engineering, The UWA Oceans Institute, The University of  
Western Australia, Perth, WA 6009, Australia

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