Special Issue

Emerging Computational Methods in Intelligent Marine Vehicles

Message from the Guest Editors

Intelligent marine vehicles, such as unmanned/autonomous surface vehicles (USV/ASV) and unmanned/autonomous underwater vehicles (UUV/AUV), have become increasingly popular recently because of their flexibility, versatility and high performance–price ratio in several applications, e.g., ocean exploration, oceanography, and search and rescue missions. Performance in these applications depends highly upon the data sensed from various sensors, such as visible/infrared cameras, radar, global navigation satellite systems, and automatic identification systems for USV/ASV, and visible cameras, sonar, inertial navigation systems, and Doppler velocity logs for UUV/AUV. However, the collected sensed data inevitably suffer from noise and missing data during signal encoding, transmission, and decoding. To guarantee high-quality sensed data, it is necessary to develop advanced computational methods to handle raw data under complex environments. Developing emerging technologies, e.g., data fusion, large language models, and artificial general intelligence, have been redefining and expanding traditional application scenarios of marine vehicles.

Guest Editors

Prof. Dr. Ryan Wen Liu
Dr. Maohan Liang
Prof. Dr. Kezhong Liu

Deadline for manuscript submissions

closed (5 March 2026)

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/si/234551

Journal of Marine Science and Engineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jmse@mdpi.com

mdpi.com/journal/jmse

Journal of Marine Science and Engineering

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.0

mdpi.com/journal/jmse

MDPI

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
School of Engineering, The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia

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).