

Special Issue

Advances in Marine Vehicles, Automation and Robotics—2nd Edition

Message from the Guest Editors

With the advancement of oceanography research and marine resource exploration, marine mobile platforms have gained prominence, assuming a pivotal role in various marine missions including resource exploration, ocean observation, environmental monitoring, and sea area investigations. These platforms come in various types, such as Unmanned Surface Vehicles (USVs), Remotely Operated Vehicles (ROVs), Autonomous Underwater Vehicles (AUVs), and Underwater Gliders (UGs), marine animal robots, and among others. In particular, the harshness of the underwater environment and the nature of the signal make navigation, guidance, and control challenging. The aim of this Special Issue is to showcase ongoing research in marine vehicles and robotics, with a focus on practical applications and enhancing marine vehicle automation. We invite high-quality original contributions, including technical papers addressing uncertainties in marine vehicle control and autonomy, reviews, surveys, theoretical works, and cutting-edge experimental approaches. The scope encompasses modeling, control, navigation, cooperation, guidance, state estimation, and localization of marine vehicles and robotics.

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 Engineering, Korea Maritime and Ocean
University, Busan 49112, Republic of Korea

Deadline for manuscript submissions

closed (28 February 2025)



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/188707

*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](https://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](https://mdpi.com/journal/jmse)



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
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 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).