

## Special Issue

# Ship Manoeuvring and Control

### Message from the Guest Editor

Ship motion control represents a core technology for autonomous ship navigation. It guarantees that ships can sail safely, cost-effectively, and comfortably along predetermined routes, thus making the study of ship motion highly practical. While substantial progress has been made in both the theoretical and engineering aspects of ship manoeuvring and control, these issues nonetheless warrant further study, particularly in terms of improving modeling accuracy, enhancing control precision, and optimizing energy efficiency under high-complexity sea conditions. This Special Issue aims to provide an opportunity for researchers and practitioners to share their latest theoretical and technological achievements in ship maneuvering and control. Topics of interest include, but are not limited to, the following:

- The applications of ADP-based, learning-based, and reinforcement learning-based control on marine ships;
- Adaptive control of marine ships;
- Traffic flow analysis and forecasting for marine ships;
- Ship motion modeling techniques.

---

### Guest Editor

Dr. Weiwei Bai

Navigation College, Dalian Maritime University, Dalian 116026, China

---

### Deadline for manuscript submissions

10 June 2026



## Journal of Marine Science and Engineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.0



[mdpi.com/si/247205](https://mdpi.com/si/247205)

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