

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

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



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).