

Special Issue

Management and Control of Ship Traffic Behaviours

Message from the Guest Editors

With the increasing volume of global maritime trade, the scale of the shipping industry is expanding and the number of ships is also increasing, all of which has led to persistently high maritime accident rates. Consequently, effective management and control measures are needed to ensure the safe and efficient operation of ships in waterways. On the other hand, cutting-edge technologies, such as big data, the Internet of Things, and artificial intelligence provide new opportunities to develop improved marine transportation systems. This Special Issue focuses on the critical aspects of managing and controlling ship traffic to ensure the safety, efficiency, energy conservation, and sustainability of maritime transportation. Therefore, the scope of research for this Special Issue includes but is not limited to traffic flow optimization, collision avoidance systems, ship motion control, intelligent traffic management systems, and human factors influencing ship traffic behavior and emerging intelligent ship technologies.

Guest Editors

Prof. Dr. Xiaoyuan Wang

Prof. Dr. Václav Pištěk

Dr. Longjin Wang

Deadline for manuscript submissions

15 December 2025



Journal of Marine Science and Engineering

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.0



mdpi.com/si/201024

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

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).