

## Special Issue

# Navigation Performance and Experimental Research of Ships in Ice-Covered Areas

### Message from the Guest Editors

This Special Issue focuses on the navigation, performance, and experimental research of ships operating in ice-prone areas. The scope includes investigating ship–ice interactions, optimizing ship design for ice navigation, and enhancing performance through innovative techniques and technologies. This Special Issue entitled "Navigation Performance and Experimental Research of Ships in Ice-Covered Areas" seeks to compile pioneering research and insights into the unique challenges and technological advancements in this niche field. We are interested in receiving submissions in a wide range of topics, including, but not limited to, the following:

- Ship–ice interaction dynamics;
- Ice management;
- Structural strength, safety analysis, and health monitoring;
- Ice–water–structure interaction;
- Design innovations for ice navigation;
- Ship navigation in ice-covered regions and arctic marine operations;
- Performance assessment and optimization;
- Real-time monitoring and predictive systems;
- Environmental impacts and sustainability in ice regions;
- Safety measures and risk assessment;
- Case studies and operational experiences in ice navigation.

### Guest Editors

Dr. Chunhui Wang

Prof. Dr. Chao Wang

Prof. Dr. Shunying Ji

### Deadline for manuscript submissions

25 November 2025



## Journal of Marine Science and Engineering

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## 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.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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#### 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).