

Special Issue

Advanced Studies in Marine Data Analysis

Message from the Guest Editors

The increasing availability of marine data, driven by advancements in sensing technologies, automated monitoring, and digitalisation, has created new opportunities and challenges in maritime research. This Special Issue focuses on innovative methodologies and applications of marine data analysis, leveraging advanced artificial intelligence (AI), machine learning, deep learning, and big data analytics to enhance maritime operations, safety, and environmental sustainability. By gathering state-of-the-art research in marine data analysis, this Special Issue aims to advance data-driven decision-making in maritime transportation, improve risk mitigation strategies, and promote the integration of AI in intelligent marine systems. This Special Issue covers topics including, but not limited to, the following:

- marine data analytics;
- autonomous shipping;
- big data in maritime transportation;
- maritime cybersecurity;
- maritime situational awareness;
- AI-driven decision support systems;
- intelligent marine systems;
- risk assessment.

Guest Editors

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Deadline for manuscript submissions

closed (25 February 2026)



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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

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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).