

Special Issue

Climate Change Adaptation Strategies in Coastal and Ocean Engineering

Message from the Guest Editors

Climate change represents one of the greatest global challenges to achieving the sustainability of coastal and ocean systems. This Special Issue will cover, among others, the following areas:

Design and operation of resilient infrastructure:

Methods to reinforce and redesign ports, breakwaters, and other critical infrastructures.

Nature-based solutions: Strategies such as the restoration of mangroves, dunes, and coral reefs.

Modeling and simulation: Predictive tools to assess future impacts of climate change.

Risk management and adaptive planning: Methods to mitigate risks associated with climate change in coastal environments.

Technological innovation in marine renewable energy: Its role in reducing emissions and protecting coastal areas.

Carbon footprint assessment and reduction strategies: Evaluating and minimizing the environmental impact of coastal and ocean engineering projects.

Life cycle analysis in maritime infrastructure: Integrating sustainability metrics into design, construction, and operation phases.

Decarbonization pathways for maritime transport and operations: Exploring strategies to reduce greenhouse gas emissions in marine industries.

Guest Editors

Dr. M. Dolores Esteban

Dr. José-Santos López-Gutiérrez

Dr. Vicente Negro

Dr. Maria Graça Neves

Deadline for manuscript submissions

closed (10 December 2025)



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Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

jmse@mdpi.com

mdpi.com/journal/

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





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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

School of Engineering, The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia

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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).