

## Special Issue

# Innovative Multi-Functional and Integrated Solutions for Coastal Adaptation

### Message from the Guest Editors

This Special Issue invites authors to submit original articles dedicated to innovative solutions for a multifunctional, integrated approach to the management and protection of coastal areas. The innovative technologies include: (i) multifunctional breakwaters to combine the coastal protection with the production of marine renewable energy or with leisure activities (e.g., artificial reefs, promenades); (ii) ecocompatible sediment management for beach maintenance (e.g.m “Sand Engine”, “Mud Motor”, beach drainage); (iii) ecosystem enhancement through the restoration and/or creation of habitats such as sand dunes or biogenic reefs or buffer areas; (iv) actions to reduce the impact on society and economy including insurance frameworks, risk communication and landscape planning; (v) quasi-real-time monitoring and surveillance systems through autonomous vehicles, drones, satellite imaging; and (vi) interdisciplinary modelling frameworks to support defense planning.

### Keywords

- Adaptation
- Climate change
- Coastal flood
- Innovative management
- Multifunctional structures
- Risk assessment
- Ecosystems
- Social awareness
- Sea level rise
- Storm surge

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## Journal of Marine Science and Engineering

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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.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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### 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).