

## Special Issue

# Nature-Based Solutions for Coastal Adaptation

### Message from the Guest Editors

Coastal regions worldwide are increasingly exposed to the impacts of climate change. Nature-based solutions (NbSs) can offer a promising avenue for enhancing resilience by leveraging the inherent adaptive capacity of ecosystems. This Special Issue on “Nature-Based Solutions for Coastal Adaptation” invites studies that explore habitat restoration and conservation to address the multifaceted challenges. The following contributions are welcome: Numerical modelling of wave, sediment, morphology and flood dynamics under nature-based interventions;

Laboratory tests in flumes or wave basins to quantify hydrodynamic benefits of restored habitats;

Field surveys assessing morphological changes and ecological resilience in living coasts;

Engineering insights on hybrid solutions combining nature-based and built coastal protection;

Marine biology studies on habitat restoration, carbon sequestration, and biodiversity gains;

Technological innovations for long-term ecosystem performance monitoring;

Interdisciplinary research bridging marine science, engineering, and stakeholder collaboration;

Case studies showcasing best practices, lessons learned, and broader NbS applications.

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### Guest Editors

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### Deadline for manuscript submissions

25 September 2025



## Journal of Marine Science and Engineering

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by MDPI

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Impact Factor 2.8  
CiteScore 5.0



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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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