

## Special Issue

# Remote Sensing and GIS Applications for Coastal Morphodynamic Systems

### Message from the Guest Editor

Waves, currents, tides, climate change and human activities are important factors affecting coastal morphology. Due to the complex and dynamic nature of coastal environments, studying and monitoring these processes is challenging. Remote sensing and geographic information systems (GIS), as important monitoring means, can be used to deeply understand the coastal conditions and coastal evolution under different geomorphic environments and time scales through remote sensing observation. The purpose of this Special Issue is to publish innovative research and application-oriented works related to coastal morphological monitoring. Potential topics include, but are not limited to, the following:

- Coastal geomorphology (Coastal evolution, erosion, Sediment dynamic processes) monitoring;
- GIS and Remote sensing technologies such as optical, radar, and LiDAR for Coastal/beach Systems;
- New technology, numerical modeling, applications, etc. such as machine learning, AI.

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### Guest Editor

Dr. Yann Balouin

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### Deadline for manuscript submissions

closed (15 April 2025)



## Journal of Marine Science and Engineering

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Impact Factor 2.8  
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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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#### High Visibility:

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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).