



## Advanced Studies in Breakwaters and Coastal Protection

Guest Editors:

**Dr. Maria Teresa Reis**

Laboratório Nacional de  
Engenharia Civil (LNEC), Lisbon,  
Portugal

**Dr. João Alfredo Santos**

Instituto Superior de Engenharia  
de Lisboa (ISEL), Lisbon, Portugal

**Dr. Tiago Fazerres Ferradosa**

Faculty of Engineering, University  
of Porto, 4200-465 Porto,  
Portugal

Deadline for manuscript  
submissions:

**20 June 2024**

### Message from the Guest Editors

Dear Colleagues,

Globally, the mean-sea-level rise has been accelerating, the population living in coastal zones has been gradually growing and the demands for deeper harbors have been fast-moving to accommodate deeper-draft vessels. Certain areas around the world will also experience more frequent and intense extreme storm events, leading to increased structural damage, beach/dune erosion, flooding, amongst other processes. Different types of breakwaters have been very common for sheltering harbor entrances/basins against waves, as well as for preventing shoreline erosion. Adapted solutions have required that need to be safe and sustainable for the protection of coastal residents, ecosystems, coastal/harbor infrastructure and economy.

This Special Issue welcomes original research on innovative methods and technologies for coastal and harbor structures, including the effects of climate change, focusing on advanced studies for upgrading the reliability of existing structures in terms of safety and functionality, for the optimal design of new ones and for improving measures to mitigate risks.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Tony Clare**

School of Natural and  
Environmental Sciences,  
Newcastle University, Newcastle  
upon Tyne NE1 7RU, UK

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed with Scopus, SCIE (Web of Science), GeoRef, Inspec, AGRIS, and other databases.

**Journal Rank:** JCR - Q1 (*Engineering, Marine*) / CiteScore - Q2 (*Ocean Engineering*)

## Contact Us

---

*Journal of Marine Science and  
Engineering* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/jmse  
jmse@mdpi.com  
X@JMSE\_MDPI