



## Measuring, Monitoring and Modeling the Ocean Waves: Possible Combined Uses for Advances and Future Perspectives

Guest Editors:

**Dr. Giovanni Ludeno**

Institute for Electromagnetic  
Sensing of the Environment  
(IREA), National Research Council  
of Italy (CNR), Napoli, Italy

**Dr. Matteo Postacchini**

Department of Civil and Building  
Engineering and Architecture,  
Università Politecnica delle  
Marche, I-60131 Ancona, Italy

Deadline for manuscript  
submissions:

**closed (1 November 2022)**

### Message from the Guest Editors

Dear Colleagues,

Sea level rise and an increase in sea storminess are only some of the effects caused by climate change and variability. These phenomena interact at different temporal and spatial scales and play a fundamental role in coastal vulnerability and resilience, thus severely affecting the natural environment, residential areas, local ecosystems, existing engineering works, recreational and tourist activities, among others. Therefore, to prevent and/or mitigate such impact, a constant monitoring and a detailed analysis of the sea state are needed.

Currently, a large variety of sensors and models fulfill these requirements and are available to monitor and forecast the phenomena that govern the ocean waves. These tools provide a large amount of data relating to, for example, measurements of hydrodynamic parameters, reconstruction of wave motion and seabed morphology, as well as the prediction of meteo-marine events and beach inundation. However, such tools are rarely integrated to perform a deep and accurate analysis of the ocean waves and the phenomena related to their propagation toward the coast.

Dr. Matteo Postacchini  
Dr. Giovanni Ludeno  
*Guest Editors*





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