



an Open Access Journal by MDPI

# Hydrodynamics and Water Quality in Coastal Systems: Numerical Modelling and Observations

Guest Editors:

#### Dr. Ana Picado

Physics Department, CESAM, University of Aveiro, 3810-193 Aveiro, Portugal

#### Dr. Nuno Vaz

Physics Department, CESAM, University of Aveiro, 3810-193 Aveiro, Portugal

Deadline for manuscript submissions: **20 May 2024** 



mdpi.com/si/153443

## **Message from the Guest Editors**

Dear Colleagues,

Coastal systems are important transition zones connecting ocean and land, from where they make contact with a large number of particulate and dissolved materials (e.g., sediments, nutrients, and organic matter). These systems support productive ecosystems and high biological diversity, providing valuable ecosystem services, including salinity intrusion, nutrient recycling, natural conditions for aquaculture, nursery, and the removal of pollutants. However, coastal systems are among the areas most threatened by anthropogenic pressures, since they host large and growing populations, and also suffer from the substantial deterioration of marine water quality. Thus, an understanding of hydrodynamic behaviors, varied water properties, and water quality is necessary to develop suitable management practices.

This Special Issue seeks to collate a set of publications that enable an advanced understanding of hydrodynamics and water quality in coastal systems, taking advantage of numerical modeling and observations. We thus invite researchers to submit research articles, reviews, and case studies.

**Special**sue

Dr. Ana Picado Dr. Nuno Vaz *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