

Special Issue

Numerical Models in Coastal Hazards and Coastal Environment

Message from the Guest Editors

Numerical models of coastal hazards and environment are important tools for the prediction and estimation of those coastal hazards, and for the evaluation of their impacts on coastal morphodynamics, coastal lagoons and wetlands, and the coastal built-in environment. This Special Issue seeks to compile the current state-of-the-art research related to numerical models from model developments to their applications in coastal hazards forecast and hindcast, mitigation, and in environmental impacts assessment in the above-mentioned coastal zones. Contributions are encouraged in topics including, but not limited to:

- Numerical models in storm surge and waves, tsunami, and coastal flooding;
- Numerical models in nearshore waves and currents, tide, and circulations;
- Numerical models of coastal pollutions;
- Storm surge and waves modelling due to tropical cyclones;
- Tsunami modelling due to underwater earthquakes, volcano eruptions, and landslides;
- Coastal hydrodynamic modelling in the above-mentioned coastal zones.

Guest Editors

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Deadline for manuscript submissions

closed (10 July 2020)



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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.

Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

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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).