

Special Issue

Exploring Coastal Hydraulic and Sediment Processes for Coastal Safety in a Changing Climate

Message from the Guest Editors

The interplay between hydraulics, sediment transport, and morphology defines our coastal systems. In recent history, these systems have been increasingly modified by anthropogenic impacts through shoreward migration as well as active coastal engineering. Consequently, in many places around the world, the coast is also crucial for coastal safety. The latter becomes increasingly important in the view of expected climate change impacts: sea level rise, more extreme river discharges and changes in wind climate. In this Special Issue, we welcome studies on the processes in the coastal zone as well as studies on coastal safety in our changing world. Such coastal safety contributions can address nature-based solutions (e.g., vegetation, nourishments) as well as engineered constructions (e.g., dikes), and the combination of both. The studies can cover field observations and remote sensing, results of laboratory experiments, or numerical modeling. Contributions addressing the impacts of and possible adaptations to climate change are especially welcome.

Guest Editors

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Deadline for manuscript submissions

closed (1 November 2023)



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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

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