Special Issue

Monitoring and Modelling of Coastal Environment

Message from the Guest Editor

The coastal zone is under continuous anthropogenic pressures, because it includes the largest percentage of the world population and economy. Moreover, coastal areas are also under high environmental risk due to severe meteorological and oceanic conditions. The potential damages to infrastructure, cost in lives, and ecological impacts increase the need for accurate operational platforms to both monitor and forecast the coastal ocean dynamics. The pollution risks due to industry, urban environment, agriculture, oil drilling, and shipping also require the development of state-of-the-art techniques to measure and simulate the coastal environment to monitor its quality, develop the most appropriate measures in case of an accident (e.g., oil spills), and improve long-term design and management. The meteorological and river inputs in the ocean are significant factors that have to be cautiously included in both observational and modeling efforts. The coastal ocean is not only an economic source due to naval transportation, fisheries, and tourism but also due to the energy that can be produced under the exploration of ocean movements (e.g., waves, currents, sea level).

Guest Editor

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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.

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