



Monitoring and Modelling of Coastal Environment

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Message from the Guest Editor

Dear Colleagues,

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).





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Message from the Editor-in-Chief

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