Special Issue

Observation, Analysis, and Modeling of Nearshore Dynamics

Message from the Guest Editors

Understanding the characteristics of nearshore dynamics and coastal processes is one of the essential tasks for sustainable coastal development, conservation, and protection. The coast exhibits varying dynamic characteristics over a broad range of spatial and temporal scales. Wind waves, for example, can determine instantaneous sediment transport and cause short-term cross-shore morphology change, while nearshore currents induced by waves and tides may determine long-term and large-scale morphology change, causing chronic coastal erosion. Such nearshore dynamics at different spatiotemporal scales typically interact with each other and are also affected by other factors such as human activities and climate change. Observation, analysis, and modeling of nearshore dynamics are, thus, inevitable not only for establishing the present conditions of the coast, but also for the evaluation and projection of the future evolution under the impact of a wide range of factors.

Guest Editors

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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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