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Hydrodynamics and Sediment Transport in Ocean Engineering

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Message from the Guest Editors

To accommodate our ever-increasing energy needs, the exploration of oil and natural gas is marching toward the deep sea, and tremendous efforts have been made toward developing viable renewable energy sources from the ocean. It is utterly important and challenging to guarantee the safety of offshore structures constructed in the ocean for the purpose of extracting resources and energy. Ocean hydrodynamics, such as waves, tidal currents, tropical storms, and even internal waves, have different characteristics and may result in variable kinds of failure in offshore structures. The sediment transport on the seabed due to the long actions of ocean hydrodynamics can also change the seabed morphology, such as the local scour, the large-scale seabed evolution, etc., which may have significant influences on the stability of offshore structures. This Special Issue aims to collect articles that highlight the research on hydrodynamic and sediment transport in ocean engineering through variable methods, including theoretical analyses, numerical simulations, and experiments. It covers a variety of topics including.....



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Special Issue



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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

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