Special Issue

Research on Scour and Protection of Offshore Structures

Message from the Guest Editors

Scour of sediments around offshore structures by wave currents is the most important factor contributing to the failure of offshore structures. Scour of offshore structures leads to human fatalities and economic losses every year. Most of the research on scour mechanisms has been carried out for current and sediment environments. However, the seabed soil is constantly liquefied and re-consolidated in the complex marine environment, resulting in continuous changes in the properties of the seabed soil. In the previous scour studies, fewer studies involved the properties of the seabed soil. Moreover, in complex hydrodynamic and soil environments, the traditional scour protections have various drawbacks and cannot be effective for a long time. Therefore, revealing the scouring mechanism under the coupling of seabed soil, sediment, and wave–current are crucial for the design and protection of offshore structures. [...] For further reading, please follow the link to the special issue website at: https://www.mdpi.com/journal/water/special_issues/offshorestructures_scour_protection#editors

Guest Editors

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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.

Editor-in-Chief

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