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Research on Scour and Protection of Offshore Structures

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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:

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