



Water

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Special Issue Reprint

Coastal Engineering and Fluid–Structure Interactions

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The articles collected in the Special Issue “Coastal Engineering and Fluid–Structure Interactions” include the following keywords: coastal and nearshore engineering, fluid–structure interactions (FSIs), extreme events (e.g., typhoon and seismic loads), numerical models (e.g., CFD, VOF, and OpenFOAM) and observations, Deep Learning (DL) method, Immersed Boundary Method (IBM), nonlinear process, climate change, human activities, submerged cables, and coastal protection. These keywords are aligned with the theme of this Special Issue, but have some extensions related to coastal engineering and FSI. Studies of coastal engineering and FSI have evolved from deterministic analysis to stochastic, nonlinear, and multiscale coupling, with increasingly close integration of numerical simulations, experimental techniques, and field monitoring. Future trends will focus on extreme climate adaptability, intelligent operation and maintenance, and interdisciplinary integrated innovation, providing critical support for the safety, economy, and sustainable development of coastal and marine engineering.

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