Special Issue

Coastal Engineering and Fluid–Structure Interactions

Message from the Guest Editors

Coastal engineers have designed and constructed protected structures to cope with coastal dynamics, including wave behavior, storm surges, sediment transport, erosion, and sea level changes. Therefore, understanding coastal hydrodynamic environments and fluid–structure interactions is an important issue in coastal engineering. The research topics in the field of coastal engineering include broad scopes such as: (1) coastal dynamic environments of winds, waves, currents, sea ice; (2) sediment transport in the changing morphology of coastal, estuarine, and offshore regions; (3) the technical and functional design of coastal and harbor structures; (4) fluid–structure interactions including conventional hard and nature-based soft structures; (5) innovations in research methods and techniques including mathematical and numerical modeling, laboratory and field observations, and experiments.

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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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