Special Issue

Hydrodynamics in Estuaries and Coast: Analysis and Modeling

Message from the Guest Editor

Estuarine and coastal regions are heavily populated and well developed areas. Fresh river water carries sediment and deposits it as it enters the estuary, while salt water intrusion into the river mouth may affect the river's ecology and environment. In coastal environments, tidal flow, current, and waves may cause beach erosion and variation of water quality. The hydrodynamics in estuaries and coasts is very complicated and requires a unique approach combining theoretical analysis, numerical modelling, physical laboratory experimental model study, as well as field observation. This Special Issue is set up to receive research papers investigating the hydrodynamics, sediment transport, and water quality in the region of estuaries and coasts. Topics include: fresh–salt water exchange in estuaries, estuarine and coastal sediment transport, beach erosion and nourishment, and water quality modelling in estuaries and coasts.

Guest Editor

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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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