Special Issue

Numerical Modelling of Wave Fields and Currents in Coastal Area

Message from the Guest Editor

This Special Issue focuses on the numerical simulation of wave fields and wave-induced currents in coastal areas. It welcomes research into all aspects of numerical models for the simulation of free-surface elevation and velocity fields induced by wave motion. The topics of this Special Issue range from new numerical schemes for the simulation of wave propagation and evolution from deep water to shoreline, to numerical investigation of specific problems, like wave-breaking, turbulence models, swash zone hydrodynamics, or the simulation of the oscillating wave boundary layer. Original contributions are encouraged concerning the theoretical aspects of the numerical model, specific aspects of the adopted numerical scheme, or the application of the numerical model to a practical engineering case study.

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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