Special Issue

Simulation of Hydrodynamic and Sediment Transport Fields in Seas and Rivers

Message from the Guest Editor

This Special Issue welcomes original research articles, comprehensive reviews, and applied studies concerning numerical and experimental simulations of velocity, free surface elevation, and suspended sediment concentration fields produced by wave motion, coastal currents, tidal flows, and river currents.

The contributions for this Special Issue may concern the adopted numerical or experimental methodologies and the application of numerical and experimental methods to practical engineering case studies.

The topics of this Special Issue include, but are not limited to, three-dimensional or two-dimensional numerical simulations, and experimental studies for free surface flow and sediment transport phenomena.

Original contributions are encouraged concerning, for example, theoretical aspects, innovative mathematical representations, and numerical or experimental methodology about specific phenomena such as turbulence, wave breaking, resuspension and transport of solid particles, changes in river and sea bottoms, and evolution of coastlines.

Guest Editor

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Deadline for manuscript submissions

closed (20 August 2021)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/62346

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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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