Special Issue

Recent Advances on Physically-Based and Data Driven Models in Watershed Science and Engineering

Message from the Guest Editors

Over the last few decades, the understanding of water-related processes in natural/urban catchments and coastal areas has been significantly improved by means of physically-based distributed models, based on the fundamental laws of conservation of mass, energy and momentum at multiple spatio-temporal scales. These models are still evolving due to the 1) advances in mathematical derivation of hydrological and hydrodynamic processes, 2) the potentiality of mining flood data from several sources, such as the application of satellite-based products, the accessibility of range of sensors, the use of social media, etc., which reduce uncertainties in model parametrization and calibration, and 3) the increasing use of parallel computing techniques, especially for applications in large basins. [...]

For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/water/special_issues/A682ZAQGCP

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Message from the Editor-in-Chief

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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