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

Guest Editors:

Dr. Pierfranco Costabile

Dr. Vasilis Bellos

Dr. Mario Morales-Hernández

Prof. Dr. Reza Ahmadian

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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.

[...]

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Dr. Jean-Luc PROBST

Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

Message from the Editor-in-Chief

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Contact Us

Water Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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