Special Issue

Numerical and Experimental Methods, Data Analyses, Digital Twin, IoT Machine Learning and AI in Water Sciences

Message from the Guest Editor

Advanced numerical and experimental methods, such as Data Analyses, Digital Twin, IoT Machine Learning, and AI, are essential for unraveling the mechanisms underlying various water resources and water processes to understand the complex interactions between water processes, such as soil erosion, nutrient cycles, water resources, water quality, biodiversity, climate, soil, and environmental sustainability. This Special Issue invites innovative scientific contributions to delve into these mechanisms and explore the latest research in this field, including experimental and computational approaches, modelling, simulation, integration, testing, monitoring, data analyses, digital twin, IoT machine learning, and AI, and the development of novel techniques for studying water processes and soil–water–air–plant interactions. We invite contributions that address these and other challenges with a focus on water science from local, regional, or global perspectives.
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Guest Editor

Prof. Dr. Junye Wang
Faculty of Science and Technology, Athabasca University, Athabasca, AB T9S 3A3, Canada

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

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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

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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