Special Issue

Integrated Approaches to Climate-Driven Hydrological Modeling and Water Resources Management

Message from the Guest Editor

This Special Issue welcomes the submission of innovative research on climate-driven hydrological modeling and its applications in sustainable water resources management. We seek contributions that address (1) innovative modeling techniques (e.g., machine learning, remote sensing, or coupled climate-hydrology models); (2) the impacts of climate variability on water availability, extreme events, and ecosystem resilience; (3) policy-relevant frameworks for adaptive water management under uncertainty. This Special Issue will bridge the gaps between theoretical advancements and practical solutions, emphasizing interdisciplinary approaches that combine hydrology, climatology, and socio-environmental systems. Submissions may cover watershed-scale studies, urban water resilience, groundwater sustainability, or transboundary water governance. By presenting state-of-the-art methodologies and case studies, this Special Issue aims to advance the science of hydrological prediction while supporting policymakers and stakeholders in mitigating climate risks.

Guest Editor

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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
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