Special Issue

Watershed Ecohydrology and Water Quality Modeling

Message from the Guest Editor

This Special Issue delves into the critical nexus of hydrological and ecological interactions within watersheds, seeking to advance our understanding and management capabilities through sophisticated modeling approaches. The convergence of enhanced computational power, rich datasets, and refined understanding of processes has catalyzed a new era of watershed modeling, capable of capturing the intricate interplay between biogeochemical cycles, ecohydrology, erosion, anthropogenic influences, and atmospheric drivers. We invite submissions that explore ecohydrological processes at the watershed scale, particularly focusing on the application of physics-based, data-driven, or hybrid models. This Special Issue will highlight research that quantifies the impacts of land cover and climate change, alongside human infrastructure, on watershed hydrology, and water quality, encompassing nutrients, sediment, bacteria, and emerging contaminants. This Special Issue aims to showcase cutting-edge research that bridges the gap between theoretical modeling and practical watershed management, fostering a deeper comprehension of these complex systems.

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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