

Special Issue

Application of Advanced Computational Methods in Hydrological and Environmental Modelling

Message from the Guest Editors

Dear, Colleagues Water management within a catchment remains an important problem which has several influencing variables. The accurate and deterministic forecasting of water resource variables such as flood, drought, lake, groundwater levels, water temperature, evaporation, discharges, and water quality is very difficult. Simulated hydrological responses of river basins remain highly uncertain, due to the presence of a broad variety of schematizations, erroneous measurements, and prior assumptions. Accurate and reliable runoff predictions by rainfall-runoff models should be a core component of flood risk management. This Special Issue invites authors to contribute new and original research findings that can add new knowledge to the effort toward understanding water resource systems, patterns, behaviors, and tools for hydrological prediction. Contributors are encouraged to present state-of-the art research to help the wider user community to include uncertainty in hydrological forecasts and to use such forecasts in supporting the decision-making process.

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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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