

Special Issue

Extreme Hydrology: Induced Impacts and Vulnerability of Water Resources

Message from the Guest Editors

Drought and floods are natural hazards that are having an impact on the livelihood of many communities, leading to a loss of life and damage to natural resources and the environment. The world is experiencing an alarming rate of population increase, decline in freshwater resources, and shrinkage of natural and fragile ecosystems. With the changing climate and frequent and extreme weather phenomena leading to extreme events, water resources managers and policymakers are struggling to offset the impacts on communities, freshwater availability, water quality, human welfare, and agricultural production and services. These efforts will require an understanding of the behaviors of these extreme phenomena, their linkages to climate dynamics, and the predictability and simulation of the extent of these events. This Special Issue calls for high-quality research papers on drought monitoring and modeling, flood processes and forecasting, climate-change-related extreme events, water quality degradation, land degradation, and soil erosion, ground and surface water vulnerability, and other related areas.

Guest Editors

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Deadline for manuscript submissions

closed (15 August 2022)



Water

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Impact Factor 3.0
CiteScore 6.0



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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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