

## Special Issue

# Advances in Quantification and Modeling of Hydrological Droughts

### Message from the Guest Editors

Drought constitutes an important part of the scientific field of hydrology and water resources. Currently, drought draws worldwide attention primarily because of climate change, among other causative factors. The quantification of drought encompasses the study of deficiencies in precipitation, streamflow, water storage in surface waters, groundwater storage and soil water content. Accordingly, three major types of droughts are recognized: meteorological, hydrological and agricultural. The present Issue will focus on the above aspects of hydrological droughts, and papers are solicited which address the quantification of hydrological droughts based on the historical data, choice of suitable drought indices, stochastic characteristic of drought parameters, frequency and time domain analyses using traditional and machine learning algorithms (ANN, artificial intelligence, support vector regression, discrete wavelet transform, etc.) for prediction and forecasting.[...] For further reading, please follow the link to the Special Issue Website at: [https://www.mdpi.com/journal/water/special\\_issues/Q7A9O091K1](https://www.mdpi.com/journal/water/special_issues/Q7A9O091K1)

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### Deadline for manuscript submissions

closed (26 July 2024)



## 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.

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### Editor-in-Chief

Dr. Jean-Luc PROBST

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