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Challenges of Hydrological Drought Monitoring and Prediction

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Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editors

Dear Colleagues,

Droughts are natural disasters that can have widespread and long-lasting environmental and social impacts. Hydrological drought refers to the shortage of precipitation, streamflow, and groundwater, as well as lake and reservoir storages. The evolutionary processes of hydrological drought are very complex and highly susceptible to disturbance by human activities. This presents many new challenges to monitor and predict hydrological drought under the changing environment. In this Special Issue, research and development on the monitoring and prediction of the hydrological drought are welcome. In particular, methods or suggestions of improving the monitoring and forecasting technology to assess and mitigate its effects are encouraged.

We are looking for papers covering the following aspects, but this is by no means an exhaustive list:
Drought monitoring and forecasting;
New methods and theories for drought assessment;
Formation and evolution process of hydrological drought;
Driving mechanism of hydrological drought;
Prevention and mitigation measures for drought;
Water resources management during the drought;
Drought risk;
Drought recovery;
Drought indices.

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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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