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Drought and Water Scarcity: Monitoring, Modelling and Mitigation

Guest Editor:

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Deadline for manuscript submissions:
closed (15 February 2023)

Message from the Guest Editor

The aim of this Special Issue is to foster scientific and technological advances in the field of water scarcity and droughts for a range of practical applications and research investigations.

Such contributions can be focused on various aspects, including, but not limited to, active and passive remote sensing data and methods (e.g., satellites, weather radar, SAR, UAV, sensors), applications in drought hazards affecting agriculture, water scarcity simulation and modeling, decision support systems, climate change: impact-mitigation-adaptation, agroclimatic classification, software tool development for data collection and processing, as well as their applications.

- Evapotranspiration concepts and estimation
- Advances in features of the hydrological cycle
- Frequency Analysis of droughts
- Geostatistical Analysis of drought indices
- Remote Sensing in hydrometeorological analysis
- Hydrological Forecasting
- Demand Forecasting
- Water Resources Management Modelling
- Drought forecasting and Drought Early Warning Systems (DEWS)
- Drought Assessment
- Water Scarcity Management
- .....

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Editor-in-Chief

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Message from the Editor-in-Chief

Hydrology is the study of the waters of the Earth. Hydrology has close ties with hydraulics, hydrogeology and the multiple sciences that study the atmosphere, the land surface, the soil and the subsoil, and ranges from complex problems of risk, forecasting and optimization of water resources to interactions with ecological, urban, social and economic systems.

The purpose of *Hydrology* is then to provide a journal where research results and real-world problems can be presented and discussed in order to bridge the traditional gaps between the academic world and the professionals and decision makers. Therefore, *Hydrology*, invites authors to submit their original theoretical, field, experimental, and numerical studies on hydrology with strong emphasis on multidisciplinary approaches and interdisciplinary topics, which cross the typical boundaries of our science.

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