

## Special Issue

# Advances in Hydrological Modelling, Quantitative Analysis and Prediction for a Changing Environment

### Message from the Guest Editors

Over the last two decades, there has been a huge increase in hydrological model applications with a focus on global changes, particularly on water resources and the impact on regional hydrological processes, among which the evaluation of the climate change impact has been a major area. We are organizing this Special Issue and cordially invite researchers and practitioners in the wider modelling community to submit research papers related (but not limited) to the following aspects:

- Progress in modelling hydrological processes in a changing environment
- New model structure and design to address the social dimensions and interactions when building societal resilience to the changing environment
- Utilization and mining of large environment datasets to support environment change prediction and planning using data-centric techniques
- Identification and prediction of abrupt environment changes, e.g., from floods to droughts.
- The role of hydrological modelling in mitigating and building resilience to the hazards caused by environmental change
- Hydrological prediction and hydrological uncertainty analysis based on probabilistic perspectives.

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### Guest Editors

Dr. Yunqing Xuan

Dr. Zhiyong Liu

Prof. Dr. Hongyan Li

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### Deadline for manuscript submissions

closed (31 December 2021)



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### Editor-in-Chief

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