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Statistical Analysis and Stochastic Modelling of Hydrological Extremes

Guest Editor:

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Deadline for manuscript
submissions:

closed (31 May 2019)

Message from the Guest Editor

Assessment of hydrological extremes is of paramount importance, as they have the potential to affect society in terms of human health and mortality, and also may have effects on the ecosystem and economy (e.g., infrastructure and agriculture). This Special Issue invites original research articles, as well as review articles, that address statistical analysis and stochastic modelling of hydrological extremes under current and future climate conditions. We are particularly interested in studies related to innovative stochastic and statistical approaches to analyze hydrological extremes. Potential topics include, but are not limited to:

- Decadal anomaly and trend analysis of historical hydrological extremes
- Anthropogenic and atmospheric drivers
- Assessment of uncertainties in hydrological projections and observations
- Application of statistical and dynamical downscaling methods
- Hydrological modeling under extreme conditions
- Early warning and forecasting systems
- Regional and global drought and flood analyses
- Adaptation and mitigation strategies
- Socio-environmental consequences of hydrological



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Special Issue



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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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