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Climatic Change Impact on Hydrology

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Deadline for manuscript submissions:
closed (30 June 2018)

Message from the Guest Editors

Dear Colleagues,

Ongoing and future climate change will impact water resources worldwide and redefine risk levels associated with hydrological extremes. Climate change impacts on catchment hydrology are likely to display strong regionalism, due to both spatially-variable climate forcing and the often unique physiographic characteristics of individual catchments. Understanding and predicting the hydrological response of catchment to climate change under different climate regimes, and elucidating the role of physiographic factors or 'catchment structure' (topography, geology, geomorphology, etc.) in mediating this response, thus represent active research areas in hydrology. This Special Issue welcomes contributions related to climate change impacts on hydrology, including but not limited to the following topics:

- Diagnostics of streamflow-climate relationships from historical observations
- Model-based projections of streamflow variability in response to climate change
- Changes in flood and baseflow characteristics in response to historical and projected climate change
- Influence of catchment structure and climate type on the catchme

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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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