Special Issue

Trend Prediction and Analysis of Climate and Hydrological Changes in the Basin

Message from the Guest Editor

Water holds huge significance for terrestrial ecological environments. Especially in the world's arid and semi-arid regions, climate change has a profound impact on surface processes driven by atmospheric precipitation, fragile ecology, and its changes. This Special Issue aims to collect the latest research progress on fluvial processes and water cycling in these regions and their responses to climate change, with a focus on the impact of climatic and hydrological changes on arid environments since modern, historical and geological periods (with an emphasis on the Late Quaternary period). Topics of interest include, but are not limited to, the following:

- The impact of modern climate hydrological changes on the ecological environment of arid and semi-arid regions/watersheds.
- Historical hydrological changes in semi-arid regions/watersheds influenced by the Asian monsoon.
- The impact of climatic and hydrological changes during the Late Quaternary on the formation and evolution of deserts.
- Changes in monsoon climate and hydrology of the watershed indicated by paleosols in arid and semi-arid regions/watersheds.

Guest Editor

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Deadline for manuscript submissions

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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.

Editor-in-Chief

Dr. Jean-Luc PROBST
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