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Remote Sensing of Hydrological Extremes: Current Progress and Future Prospect

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Message from the Guest Editors

Extreme hydrological events, especially floods and droughts, are among the costliest natural disasters, causing many environmental, economic, and social problems. However, the identification, monitoring, quantification, and forecasting of hydrological extremes are quite difficult tasks, and their magnitude, timing, and variations are sensitive to ongoing climate change and human activities. For instance, investigating the possible impacts of climate change on hydrological extremes, as well as their key driving factors globally and regionally, is critical to manage the possible corresponding risks.

Specific topics include, but are not limited to:

Impacts of climate change and/ or human activities on hydrological extremes;

Identification and forecasting of flash droughts or floods;

Non-stationarity and uncertainty of hydrological extremes and processes related to hydrological extremes;

Data assimilation and data merging methods for simulation of hydrological extremes with remote sensing datasets;

Calibration of hydrological models for high and low flows using remote sensing datasets.

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Message from the Editorial Board

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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