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Prediction and Assessment of Hydrological Processes

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Deadline for manuscript submissions:
30 April 2025

Message from the Guest Editors

This Special Issue will feature the latest advances and developments in sustainable hydrological cycling.

The main themes of this Special Issue include, but are not limited to, the following:

1. The use of advanced computing methods for precise hydrological variable forecasting (modeling streamflow, floods, sediment, air temperature, evaporation, evapotranspiration, etc.);
2. The utilization of advanced machine learning and deep learning models with ensemble models for solving hydrological problems;
3. The spatial and temporal modeling of hydrological variables with the aid of advanced computing models;
4. The coupling of data preprocessing techniques with machine learning and deep learning methods to capture noise and nonlinear hydrological variables;
5. The use and development of novel optimization algorithms with machine learning methods to enhance their computing abilities.

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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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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (Water Science and Technology)

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