

Special Issue

Advances and Challenges in Hydro-Climatological Modeling and Uncertainty Analysis

Message from the Guest Editors

When multiple hydro-climatological extreme or nonextreme events (such as floods; drought; precipitation; extreme temperatures, humidity, and wind speed; heatwaves; etc.) occur simultaneously or successively, the compound effect amplifies the overall stress level compared to their individual consideration. Also, because of CC and/or LULC, the methods used to identify, attribute, and measure their frequency of occurrence or severity must be reviewed, as these processes are no longer stationary or time-invariant. Statistical methods have a long history of analysing such complex hydro-climatological data for designing, planning, infilling, and forecasting. Time-frequency analysis, hydrological modelling, multivariate statistical techniques, uncertainty analysis, artificial intelligence, etc., are powerful tools for the stationary and nonstationary modelling of hydro-climatological events in static and dynamic settings. We are particularly interested in and welcome contributions from a diverse community of studies related to innovative stochastic and statistical model development in climatology and hydrology, as well as their uncertainty analysis using historical.....

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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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