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Hydrological Modeling in Water Cycle Processes

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Message from the Guest Editors

Modeling water cycle processes is always a critical strategy for hydrologic research and has long been the goal of all hydrologists. Hydrological models are in general designed to meet one of two primary objectives. One is to gain a better understanding of the hydrological phenomena operating in a catchment and of how changes in catchment may affect these phenomena. Another is the generation of synthetic sequences of hydrological data (in both gauged and/or ungauged regions) for facility design or for use in forecasting. In past decades, they were also used to study the potential impacts of changes in land use or climate, real-time hydrodynamic streamflow routing, etc. Though great progress has been achieved, challenges still exist in this area—for example, the lack of a profound mechanism understanding of the impacts of a changing environment on water cycle processes, and corresponding effective modeling methodology, as well as uncertainty issues related to data, model parameters and structure and further studies are required. Discussing these challenges, finding solutions, and presenting the latest achievements are the key purposes of this Special Issue.







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Message from the Editor-in-Chief

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