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Modelling Hydrologic Response of Non-homogeneous Catchments

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Message from the Guest Editor

Hydrological modeling is an essential part of water resources management, planning, and design of water structures. Despite of its importance, it is a challenging issue, especially in non-homogeneous catchments (e.g., in terms of geology, karst features or any other watershed characteristic) with a complex hydrological behavior and response. Various methods of different complexity can be used for hydrological modeling, from relatively simple empirical and lumped models to physically-based conceptual and distributed models as well as data-driven models. However, there should always be a balance between model complexity and data availability.

This Special Issue calls for research manuscripts focusing on hydrological modeling or other techniques addressing hydrological response of runoff to a given precipitation in non-homogeneous catchments, comparison of the efficiency of different model structures, data resolutions, scales, etc., with the aim of reducing the uncertainty of the results (low and/or high flows) and improving water resources management in non-homogeneous catchments. Contributions may address any type of non-homogeneity of the catchments.



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Special Issue



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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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