



Hydro-Geomorphological Understanding and Modeling

Guest Editors:

Message from the Guest Editors

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A geomorphology-based understanding of hydrology has always been a useful approach for understanding the levels of the hillslope, headwater catchment, and mesoscale/large basin. Conversely, the appreciation of geomorphological features and dynamics based on hydrology is also a major naturalistic trend. A new generation of geomorphology-based hydrological approaches is emerging. This Special Issue aims to gather actual conceptual and practical developments in order to picture the state-of-the-art. Articles addressing the following topics are especially welcome:

Deadline for manuscript
submissions:
1 July 2020

- Relations between structures and functions, and related complexity (scaling, emergence, non-linearities, etc.);
- The hydrology–geomorphology–climate nexus;
- Hydro-geomorphology, a driver of hydro-ecology, hydro-chemistry, and sediment dynamics in the critical zone;
- The value of new geomorphometric and hydrological sensors and databases;
- The assimilation of geomorphological and hydrological knowledge to characterize temporal and spatial trends and patterns, systems, changes, and extreme events;
- The use of new data and methods for retrospective and prospective analysis of river system geomorphology;
- Robust and flexible hydrological modelling based on observable geomorphology;
- The impact of anthropogenic structures, shapes, and dynamics (including in urban environments);
- Comparative approaches.





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Message from the Editor-in-Chief

The relevance of water in human development and sustaining life, fuels general and scholarly interest in the world's water resources. A better understanding of all aspects of water and its relation to food supply, energy production, human health, and the functioning of ecosystems is key in managing this precious resource in a sustainable, efficient and equitable manner. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications. We ensure a critical review process and a quick turnaround between submission and final decision.

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