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The Role of Water in Shallow and Deep Landslides

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Message from the Guest Editors

Water is considered one of the most common causes of the onset of landslide instability. Water play different roles in slope stability that depend on the geomorphological conditions of the investigated sites as well as on the type of rainfall events. In terms of its effect on the physical processes, groundwater circulation can increase water pressure and/or decrease shear strength within the soil. The complexity of landslides combined with the intrinsic uncertainties of these problems make it hard for scientists to forecast where and when a landslide may occur.

The issue focusses primarily on the study of the role of water in landslides. We welcome innovative approaches and/or case studies that focus on the use of new technologies or the integration of different monitoring systems able to characterize groundwater circulation in a slope, as well as the use of models capable of forecasting landslides. All landslide types will be considered, ranging from shallow to deep landslides or from slow movements to very rapid ones. This will also include studies at laboratory scale, where authors can focus on technology innovation in order to better understand how water trigger landslides.

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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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