water

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Special Issue

Landslide Hydrology

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Message from the Guest Editors

Most landslides are triggered by rainfall, but the hydrologic dynamics that lead to changes in soil moisture and pore water pressure remain an important focal area of investigation. Important components of the hydrologic system that influence landslide behaviour include complex interactions amongst hydro-eco-geomorphic processes across various scales as well as the dynamics of preferential flow pathways, which can concentrate subsurface water within critical hillslope areas or drain water from potentially unstable sites. In addition to difficulties in understanding water pathways within heterogeneous soils and fractured bedrock, monitoring groundwater levels or soil moisture contents in unstable terrain present a challenge due to the large areas.
This Special Issue aims to develop a better understanding of hydrological processes related to landslide occurrence at both local and regional scales. It focuses on investigations in different climatological regions of the world where hydrological processes are monitored. The objective is to improve our understanding of hydrologic dynamics in unstable hillslopes and ultimately the prediction of landslide triggering mechanisms, both in space and time.

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