Special Issue

Hydrological Modeling of Landslides and Debris Flows

Message from the Guest Editors

Many regions worldwide are coping with global climate change, which is increasing the occurrence of extreme hydro-meteorological events. Landslides and debris flows could increase significantly with respect to current and past scenarios, causing a modification of the susceptibility of a region and of the frequency of their triggering. These phenomena are causing significant damages to the environment and the territory, coupled also with a general loss of organic matter and nutrients fundamental for agricultural areas. The triggering of these phenomena is mostly related to the effect of intense rainfall events, with predisposition related to the hydrological conditions present in the affected materials. Hydrological modeling is therefore fundamental to understanding the predisposing and triggering conditions of landslides and debris flows, as well as their spatio-temporal prediction. This Special Issue aims to collect research works concerning the most recent progress on the hydrological modeling of landslides and debris flows at different spatial and temporal scales, covering a wide spectrum of approaches.

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Deadline for manuscript submissions

closed (15 November 2022)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/114850

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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.

Editor-in-Chief

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