



water

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Assessment of Landslide Risk Based on Rainfall

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Message from the Guest Editor

Dear Colleagues,

Rainfall is the most important physical process for landslide triggering worldwide. However, the relationship between rainfall and landslides is indirect and typically includes a process cascade in which the rainfall is followed by infiltration into the soil, which increases the pore-water pressure that is responsible for the decrease in the shear strength of the slope materials. Moreover, the control of rainfall on landslides differs substantially depending upon landslide depth and kinematics and the affected material. Therefore, the critical rainfall conditions for failure are not the same for different types of landslides and may be strongly influenced by regional geologic and geomorphologic conditions.

During the last few decades, the relationship between landslides and rainfall has been tentatively established using physical and empirical approaches to assess rainfall thresholds, i.e., rainfall conditions (cumulated rainfall, intensity), [...]

For further reading, please follow the link to the Special Issue Website at:

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Message from the Editor-in-Chief

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