

Special Issue

Hydrologically Induced Landslides: Mechanisms and Risk Assessment

Message from the Guest Editors

Hydrological processes play a key role in the initiation, deformation, and failure of landslides. Under climate change, increasing extreme rainfall, together with disturbances from hydropower development, infrastructure construction, and urban expansion in mountainous areas, has amplified hydrological effects controlling slope stability. Rainfall infiltration, reservoir water-level fluctuations, groundwater seepage, and pore pressure changes interact with topographic and geotechnical conditions, influencing landslide triggering, deformation, and hazard characteristics. Improving understanding of these processes and related monitoring, early warning, and risk assessment methods is important for engineering safety and disaster mitigation, especially in mountainous and reservoir regions. This Special Issue, “Hydrologically Induced Landslides: Mechanisms and Risk Assessment”, provides a platform for advances in research and applications. Topics include landslide deformation and failure mechanisms, seepage evolution, hydrodynamic responses, monitoring technologies, numerical modeling, early warning methods, and risk assessment. Original research, reviews, and case studies are welcome.

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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

Dr. Jean-Luc PROBST

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