Special Issue

Geophysical Methods for Landslide Monitoring and Hydrogeophysical Applications

Message from the Guest Editors

Landslides are one of the most destructive natural hazards, with significant impacts on infrastructure, ecosystems and human safety. Understanding the triggering mechanisms, internal structure and hydrological controls is essential for effective risk assessment and mitigation. In recent years, geophysical methods have emerged as powerful and non-invasive tools for studying landslide processes and characterising complex hydrogeological systems in general. Advances in techniques such as electrical resistivity, ground-penetrating radar, seismic methods, electromagnetic surveys and integrated hydrogeophysical monitoring offer new opportunities to resolve subsurface structures, monitor hydrological dynamics and detect precursor deformations. This Special Issue aims to garner innovative research and case studies that highlight the application of geophysical approaches for landslide monitoring, early warning systems, and broader hydrogeophysical investigations. We seek contributions demonstrating methodological developments, innovative instrumentation, numerical modelling, and interdisciplinary integration with geotechnical, hydrological, and remote sensing data.

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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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