Special Issue

Rock and Soil Damage Characterization, Monitoring and Early Warning of Geohazards

Message from the Guest Editors

The Quaternary's near-surface geology has complex rock-soil structures, variable stress, and frequent geohazards. Rock and soil damage drives landslides, collapses, and rockfalls. Quantifying internal damage, monitoring fracture evolution, and early warning are key research topics. This Special Issue, "Rock and Soil Damage Characterization, Monitoring and Early Warning of Geohazards", focuses on physical responses, damage evolution, and monitoring of unstable masses. We invite original research, reviews, and technical papers on damage identification, geomechanical testing, in-situ monitoring, and risk assessment—integrating field, lab, numerical, and signal analysis. Our goal is a platform for sharing advances in damage detection, geomechanics, and hazard prediction. Submit your work to advance understanding of Quaternary mass stability and geohazard evolution.

Guest Editors

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About the Journal

Message from the Editorial Board

We live in a Quaternary world, that is, a world shaped by the interplay of the different compartments of the earth system—lithosphere, hydrosphere, atmosphere, biosphere, cryosphere—during the last ~2.6 million years. It is not possible to understand the current world—and, hence, to anticipate its possible future developments—without knowing the Quaternary history of drivers, processes, and mechanisms that have generated it. Our own species is an evolutionary outcome of the Quaternary performance. Therefore, the journal *Quaternary* is born with the aim of being an integrative journal to encompass all aspects of Quaternary science focused on understanding the complex world in which we live and to provide a sound scientific basis to anticipate possible future trends and inform environmental policies.

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