



## Rock Falls

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## Message from the Guest Editors

Dear colleagues,

We understand the process rock fall as the detachment of larger coherent rock masses and the following runout. Especially for this landslide type, the estimation of its hazard is difficult. Even though clear mechanical models are mostly available to deal with the detachment, it is often challenging to correctly identify the initial failure mechanism and estimate the potential volume of detachment. The runout process, in turn, is in most cases a process chain of moving individual fragments, dynamic interaction of fragments, and mass flows of rock fragments. The extent to which the dynamic interaction between fragments and the progressive fragmentation of moving mass must be considered is not yet fully understood. Holistic models that are able to deal with the detachment and the following runout in a single computational run are extremely computationally intensive and are still partly experimental in nature.

This Special Issue aims to collect all research developments related to the whole rock fall process and provide a comprehensive update on the state of the art.





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## Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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