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Debris Flows Research: Hazard and Risk Assessments

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Message from the Guest Editors

Dear Colleagues,

Substantial advances have been made in various aspects of debris-flow hazard and risk assessments over the past decade. These include sophisticated ways to date previous events, two and three-dimensional runout models including multiphase flows and debris entrainment options, and applications of extreme value statistics to assemble frequency–magnitude analyses. Quantitative risk management (QRM) has emerged as the most rational and defensible method to assess debris-flow risk and optimize mitigation efforts. The pertinent questions, of course, have remained the same: How often, how big, how fast, how deep, how intense, how far, and how bad? Similarly, while major life loss attributable to debris flows can often, but not always, be avoided in developed nations, debris flows remain one of the principal geophysical killers in mountainous terrains. [...]

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

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Special Issue



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