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Mechanism and Prevention of Debris Flow Disaster

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Deadline for manuscript submissions:

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Message from the Guest Editors

Debris flow is one of the most catastrophic geological events around the world. Strong earthquakes and heavy rainfall events are the most significant contributors to the frequent occurrence of large debris flow. Understanding the debris flow disaster and putting forward effective control measures is a societal priority. However, there are significant technical challenges associated with the mechanisms and prevention of debris flow disaster.

This Special Issue will cover the recent advances and future developments concerning debris flow in the initiation mechanisms of debris flow, unsteady flow performance, channel erosion mechanisms, debris flow impact estimation, regional risk assessment, design optimization of debris flow mitigation measures, etc. In addition to these main topics, we further encourage the submission of original research and synthetic reviews through field investigations, novel data acquisition techniques, laboratory and model experiment research, new numerical approaches, and the application of artificial intelligence approaches.



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Special issue



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Message from the Editor-in-Chief

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