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Multiplatform and Multisensor Applications for Landslide Characterization and Monitoring

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Deadline for manuscript submissions:
closed (28 February 2026)

Message from the Guest Editors

Nowadays, active landslides can be identified and monitored via several imaging platforms, ranging from terrestrial to crewed/uncrewed aerial vehicles or spaceborne satellites. Despite the imaging sensing method adopted, the scientific community has extensive options in terms of image processing algorithms, which have been developed to detect changes and/or derive spatially distributed displacements over time. The vast number of combinations of sensors and platforms, coupled with the significant range of geometric and temporal resolution, can lead to countless applications. Such tools, when integrated with ground truth datasets, increasingly provide new solutions for landslide monitoring and interpretation. Moreover, integrating these high-tech imaging and processing tools with rigorous ground truth datasets has revolutionized the methods via which landslides can be monitored and interpreted. In this Special Issue, papers dealing with landslide characterization and monitoring and/or technical papers presenting innovative image processing algorithms applied to ground displacement analysis/observation are welcome.

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Message from the Editorial Board

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