



Remote Sensing and Numerical Modeling for Landslide Analysis

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Message from the Guest Editors

Dear Colleagues,

Over the last two decades, advanced remote sensing methods and their applications have allowed geoscientists and engineers to investigate, characterize, and monitor the evolution and behavior of soil and rock slopes. Terrestrial, airborne, and satellite methods, including digital photogrammetry, laser scanning, and synthetic aperture radar, are today routinely employed in slope characterization, monitoring, as well as in hazard analysis and risk assessment. Remote sensing data are also important in the construction, constraint, and validation of numerical modelling analyses. Three-dimensional terrain models can be used in the creation of the numerical model slope geometry. Rock mass quality and discontinuity data can be used to determine slope model input material parameters and to define both discrete discontinuities and fracture networks at multiple scales, from the outcrop to the regional scale. Monitoring data can be used to constrain and validate the numerical modelling results and to assist in the identification of mechanism of failure and the factors that control the evolution and stability of a slope.





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Message from the Editor-in-Chief

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