



SAR Imagery for Landslide Detection and Prediction

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Message from the Guest Editors

Dear Colleagues,

In recent decades, satellite remote sensing has been established to measure surface displacements due to natural and human-induced processes. This tool has been improved with the synthetic aperture radar (SAR) technique. Thanks to this technique, millimetric–centimetric ground deformations can be measured, furnishing a fundamental tool for detecting and monitoring ground surface deformations related to landslides and for studying the trends of evolution of these phenomena.

SAR-based techniques have also been developed for the identification of landslides triggered in consequence of a particular event, allowing to create inventories and databases, overcoming the intrinsic limitation of the traditionally used optical images due to the cloud cover.

This Special Issue aims at collecting new developments and methodologies, best practices, and applications of SAR imagery for the detection of landslides, the characterization of landslide displacements, and the prediction of new landslides triggering or of the evolution of displacement trends.





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Message from the Editor-in-Chief

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