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Remote Sensing Application in Landslide Detection and Assessment

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Message from the Guest Editors

Remote sensing technology has had a pervasive impact on tackling environmental issues and disaster risk management. Notably, these benefits have been substantial for research and monitoring of phenomena like landslides and other mass movements, which are often difficult to access and hidden under thick vegetation cover. Indeed, remote sensing techniques are now widely used for the early detection of ground deformation, the implementation of warning systems in case of imminent landslide triggering, and the medium- and long-term slope instability monitoring supporting prospective modeling. This is particularly important considering that landslide occurrences may be exacerbated by extreme weather events, which are growing in frequency due to ongoing climate change.

The present issue is thus timely to share and discuss the state of the art and the remaining challenges in the field of landslide hazard and disaster risk remote sensing: (1) applications of existing methods; (2) technological developments; (3) processing developments, including new algorithms. If potential authors wish to discuss any additional topics, please feel free to contact the special issue editorial team.



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Special Issue

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Message from the Editor-in-Chief

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