



Monitoring Subtle Ground Deformation of Geohazards from Space

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Deadline for manuscript
submissions:

closed (31 August 2023)

Message from the Guest Editors

Various geological disasters, including earthquakes, volcanoes, landslides and permafrost melting, often result in ground deformation of different magnitudes.

The modern remote sensing and space geodetic technologies, especially Synthetic Aperture Radar (SAR) and Global Navigation Satellite System (GNSS), have been demonstrated to be powerful approaches to detect, monitor, and model geohazards. However, impacted by various artifacts, it is necessary to further advance data processing algorithms for accurate deformation measurements.

This Special Issue is aimed at providing selected contributions on advances in InSAR/GNSS algorithm development and quantitative studies on subtle ground deformation linked to various geohazards. Themes in this Special Issue include, but are not limited to: InSAR/GNSS algorithm development and multi-source data integration; Earthquakes and tectonics; Volcanic processes; Landslides; Permafrost; Crustal loading effects; Applications with big data analysis techniques.





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Message from the Editor-in-Chief

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Journal Rank: JCR - Q1 (*Geosciences, Multidisciplinary*) / CiteScore - Q1 (*General Earth and Planetary Sciences*)

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