



Remote Sensing Monitoring for Tectonic Deformation

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Message from the Guest Editors

Interseismic crustal deformation produces a rather small amount of strain that is diffuse over large areas, and covers long temporal spans. In the last decades, the increasing availability of geodetic measurements such as remote sensing techniques, INterferometric SAR and GPS observations, demonstrated a great potential to detect tectonic signals.

The European Sentinel-1A/B data exploitation provided a fundamental tool for measuring small-scale crustal deformation over large areas, helping Earth Observation to increase its potential, even in inaccessible areas. The use of geodetic observations inverted with near-source strong-motion and high-sampling-rate GPS waveforms, contributed to the analysis of coseismic slip behavior, the geometry of the causative fault, and cumulative slip distribution in many seismic events, improving our knowledge of source.

We invite the global scientific community to contribute to this Special Issue proposing new results retrieved by using remotely sensed data to infer interseismic strain accumulation and coseismic deformation in order to better understand the improvements in actual active tectonic knowledge.





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