

Special Issue

Remote Sensing Monitoring for Tectonic Deformation

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.

Guest Editors

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Message from the Editorial Board

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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