Ground Deformation Patterns Detection by InSAR and GNSS Techniques

Guest Editor:

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Message from the Guest Editor

With this special issue we compile state-of-the-art research that focuses on detection of ground deformation patterns by using Interferometric Synthetic Aperture Radar (InSAR) and GNSS observations. In the last two decades, the rapid growth in continuous GNSS networks and improvements in InSAR imaging allows for the acquisition of both continuous and spatially extensive datasets over large regions of Earth. These datasets are able to capture, with high resolution, the deformations occurring at various spatial and temporal scale, therefore providing important constraints on ongoing crustal processes. For instance, these datasets are largely used to study the deformations accompanying pre-eruptive inflation, dike intrusion and co-eruptive deflation on active volcanoes as well as the co- and post-seismic deformation fields related to large earthquakes. Moreover, these datasets have shown a high potential to provide valuable information on the extent and continuous monitoring of land subsidence associated with overexploitation of local aquifers. Review contributions are welcomed as well as papers describing new measurement concepts/sensors.

Special Issue

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Message from the Editor-in-Chief

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