# Special Issue

# Ground Deformation Patterns Detection by InSAR and GNSS Techniques (3rd Edition)

### Message from the Guest Editors

The rapid development of multi-GNSS constellations (GPS, GLONASS, BDS and Galileo) and improvements in InSAR imaging allows for the acquisition of both continuous and spatially extensive datasets over large regions of the Earth. These datasets are able to capture, with high resolution, the deformations occurring at various spatial and temporal scales, therefore providing important constraints on ongoing crustal processes. Moreover, these datasets are also used to study the active volcanoes, as well as the seismic deformation fields related to large earthquakes and the detection of subsidence associated with the extraction of mineral resources. Novel techniques such as GNSS reflectometry have shown a high potential to provide valuable information on ocean, land, or the cryosphere. Advanced InSAR processing techniques are currently enabling the production of high-quality maps of wide areas characterized by rapid changes such as the ones damaged by earthquakes, fires, floods, etc. This Special Issue aims to provide a complete state-ofthe-art description of all the topics mentioned above. Review contributions as well as papers describing new measurement concepts/sensors are welcomed.

#### **Guest Editors**

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## Deadline for manuscript submissions

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### Message from the Editor-in-Chief

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#### Editor-in-Chief

#### Dr. Prasad S. Thenkabail

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