



## Urban Deformation Monitoring using Persistent Scatterer Interferometry and SAR tomography

Guest Editors:

**Dr. Michele Crosetto**

Centre Tecnològic de  
Telecomunicacions de Catalunya  
(CTTC), Remote Sensing  
Department, Division of  
Geomatics, Av. Gauss, 7 E-08860  
Castelldefels (Barcelona), Spain

**Dr. Oriol Monserrat**

Centre Tecnològic de  
Telecomunicacions de Catalunya  
(CTTC), Remote Sensing  
Department, Division of  
Geomatics, Av. Gauss, 7 E-08860  
Castelldefels, Barcelona, Spain

**Dr. Alessandra Budillon**

Engineering Department,  
Universita' degli studi di Napoli  
Parthenope, Centro Direzionale,  
Isola C4, 80143 Napoli, Italy

Deadline for manuscript  
submissions:

**closed (30 November 2018)**

### Message from the Guest Editors

Our capability to monitor deformation using satellite-based SAR sensors has increased substantially in the last years, thanks to the availability of multiple SAR sensors and the development several data processing and analysis procedures. This Special Issue is focused on the deformation monitoring in urban areas based on two techniques: Persistent Scatterer Interferometry (PSI) and SAR tomography (TomoSAR). The Special Issue targets collecting the latest innovative research results related to at least one of the above technique. These can include new data processing algorithms and procedures, results based on new types of SAR data, and the development of innovative urban deformation monitoring applications.

### Keywords

- Satellite-based Synthetic Aperture Radar,
- Differential Interferometric SAR,
- Persistent Scatterer Interferometry,
- SAR tomography,
- Deformation monitoring,
- Urban deformation monitoring,
- Monitoring applications,
- Cross-comparison,
- Validation.





an Open Access Journal by MDPI

## Editor-in-Chief

### Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S.  
Geological Survey (USGS), USGS  
Western Geographic Science  
Center (WGSC), 2255, N. Gemini  
Dr., Flagstaff, AZ 86001, USA

## Message from the Editor-in-Chief

*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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

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

## Contact Us

*Remote Sensing* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/remotesensing](http://mdpi.com/journal/remotesensing)  
[remotesensing@mdpi.com](mailto:remotesensing@mdpi.com)  
[X@RemoteSens\\_MDPI](https://twitter.com/RemoteSens_MDPI)