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Urban Deformation Monitoring using Persistent Scatterer Interferometry and SAR tomography

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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.

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Special Issue

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Message from the Editor-in-Chief

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