



Applications of SAR Images for Urban Areas

Guest Editors:

Dr. Elise Colin-Koeniguer

DTIS-Onera (France), Université
Paris Saclay, 91123 Palaiseau,
France

Dr. Flora Weissgerber

Onera, Université Paris Saclay,
91123 Palaiseau, France

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Message from the Guest Editors

Dear Colleagues,

SAR sensors constitute a valuable tool in urban remote sensing due to their ability to acquire images day and night, regardless of the weather conditions. Furthermore, the availability of the phase of the measured electric field allows for the implementation of specific techniques such as 3D interferometry (InSAR), differential interferometry (DInSAR), or tomography.

This Special Issue proposes to address recent advances in the use of SAR images in urban areas from different points of view:

- Spatial data processing methods: classification, learning methods, neural networks, feature extraction, pattern recognition, multitemporal analysis;
- 3D methods: interferometry, tomography;
- Multimodal methods involving SAR images;
- Main applications: urban sprawl, planning, traffic, anthropic activities, materials, subsidence, natural risks, and disaster management;
- The contribution of existing and future space missions and new means of observation (new generations of sensors) and the finest resolutions;
- Understanding of urban and artificialized environments, their evolution, and monitoring indicators.



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Dr. Elise Colin-Koeniguer
Dr. Flora Weissgerber
Guest Editors

Special Issue



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Prof. Dr. Dongdong Wang

Institute of Remote Sensing and
Geographic Information Systems,
Peking University, Beijing, China

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Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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