



SAR Applications in Engineering Geology and Structural Engineering

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Message from the Guest Editors

Dear colleagues,

The scientific community can take advantage in terms of knowledge from InSAR and DInSAR products, thanks to the increasing availability of satellite SAR data. Moreover, the progressive potential of these kinds of sensors in terms of spatial resolution make the available products more accurate and suitable for using in a broad spectrum of Engineering Geology and Structural Engineering. Furthermore, the possibility to integrate the classic interpretation techniques make possible the growing of new strategic worldwide research fields. Overall, the availability of new constellations of synthetic aperture radar (SAR) sensors is leading to important advances Engineering Geology and Structural Engineering. These constellations offer the advantage of reduced revisit times, providing low-latency data that enable analysis that can identify structural instability and dynamic deformation processes.

This Special Issue focuses on new applications jointly exploiting differential techniques, bridging the gaps between remote-sensing space-borne observations in engineering geology and structural engineering.





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Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

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