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InSAR for Environmental Remote Sensing: Current Progress and Future Vision

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Message from the Guest Editors

After a slow uptake, SAR interferometry based on satellite and airborne radar sensors is now becoming a standard technology for environmental monitoring. Subsidence phenomena, landslides, seismic events, sinkholes, and volcanic eruptions are all natural hazards where InSAR data can play a key role for mitigating risk or making informative decisions. Indeed, the synergy of agile, small sensors operated by private companies with large satellite SAR instruments operated by national and international space agencies will become an important research topic, triggering new monitoring solutions and new data fusion algorithms. Significant advances are also expected in the joint use of change detection of InSAR algorithms for the exploitation of so-called “Temporary Scatterers”. The aim of this Special Issue is to provide a snapshot of state-of-the-art monitoring solutions based on InSAR technology, while providing an overview of the current lines of research. Contributions addressing the role of new SAR constellations, cloud computing, and machine learning algorithms are especially welcome.



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Special Issue



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Message from the Editor-in-Chief

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