Special Issue

InSAR for Environmental Remote Sensing: Current Progress and Future Vision

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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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.

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