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Editorial Board Members' Collection Series: 'New Advances on SAR/Pol/InSAR/TomoSAR Techniques and Applications'

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Message from the Guest Editors

In recent decades, SAR and SAR Interferometry (InSAR) have been widely applied in the field of remote sensing.

From its initial development as a new and pioneering remote sensing tool for measuring Earth topography and surface deformation, InSAR has been now developed into a mature technique, routinely used to provide crucial constraints on a broad and diverse range of Earth science processes. In this context, the development was not limited to SAR interferometry, but spread to the investigation of SAR Tomography (TomoSAR) techniques, where multiple SAR images are jointly processed to produce a three-dimensional representation of the imaged scene.

The near future of SAR remote sensing appears today as bright as ever. On the one side, there is a constant push to build more sophisticated and better performing SAR satellites, resulting in new concepts such as high-resolution wide swath (HRWS), digital beamforming, and MIMO SARs. On the other side, private companies have been pushing the concept of new SAR systems based on small satellite technology, announcing plans for constellations of several dozen elements.



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Message from the Editorial Board

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