Special Issue

PolTimeSAR: Polarimetric Time-Series SAR Images: Applications in Change Detection

Message from the Guest Editor

Recently, long radar time series are becoming more and more accessible to treatments, mainly thanks to the Sentinel 1 satellites. Until then, these time-series were particularly useful for measuring deformations by differential interferometry, one of the critical applications for which polarimetry has demonstrated a significant advantage to select permanent scatterers. However, radar images are also particularly useful for detecting changes, and access to time dimension enlarges the potential uses, whether for urban sprawl monitoring, crop monitoring, pipelines monitoring, flood mapping, or maritime applications. Here again, polarimetry will play a crucial role, whether for pre-processing, improving the performance of current algorithms, or retrospective analysis. With this special issue, we compile state-of-the-art research that specifically addresses the benefits of Polarimetry in SAR-stime series, called PolTimeSAR. Review contributions are welcomed as well as works proposing an original use of full or partial polarimetry for change detection in time series, measurement concepts/sensors/constellations, or new purposes.

Guest Editor

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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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