



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

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

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-time 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.





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