Special Issue

Signal Processing of Polarimetric SAR: Detection and Parameter Extraction

Message from the Guest Editors

This Special Issue is aimed at collecting remarkable works that explore new ways to extract information from PolSAR data. This includes theoretical and applied methodologies aimed at solving current issues when processing of PolSAR data considering different modes (quad-, dual-, compact-mode). We will cover:

- Detection and change detection theory;
- Systems: Novel PolSAR systems architectures, acquisition modes, etc.;
- Spectral analysis: algorithms extracting information contained in the spectrum of PolSAR data;
- Image formation and data quality improvement: polarimetric calibration, speckle filters or other algorithms aimed at improving data quality;
- Scattering models: empirical, semi-empirical, and deterministic models to improve the understanding of PolSAR data and the extraction of geo- and biophysical parameters (forward and inverse problems). This also includes the use of acquisitions with multiple baselines;
- Multi-baseline image formation: algorithms concerning the use of multiple baselines to perform tomography or more generally extract parameters from volumetric targets.

Guest Editors

Dr. Armando Marino

Dr. Carlos López-Martínez

Dr. Ferdinando Nunziata

Prof. Laurent Ferro-Famil

Deadline for manuscript submissions

closed (1 October 2020)

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Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

mdpi.com/journal/remotesensing

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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.

Editor-in-Chief

Dr. Prasad S. Thenkabail
Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

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