Special Issue

Recent Advances and Contribution of Synthetic Aperture Radar (SAR) Applications for Agricultural Monitoring

Message from the Guest Editors

In recent years, the synthetic aperture radar (SAR) has gained increasing importance in agricultural applications because of its ability to operate without regard to weather, cloud cover, or daylight. The launch of the C-band Sentinel-1 mission, the X-band TerraSAR-X mission, the commercial-grade Capella's satellites, and the upcoming NASA-ISRO Synthetic Aperture Radar (NISAR) mission planned in the coming years is steering in a new era for SAR-based agricultural monitoring. This Special Issue aims to present the state-of-the-art research in SAR, PolSAR, and PolInSAR for predictive agricultural monitoring using publicly available and commercial datasets. We solicit contributions from public and private sectors showcasing the contribution of SAR in agriculture spanning a wide range of topics, including but not limited to the following areas:

- Crop classification using densely sampled timeseries information of SAR data
- Agricultural flood monitoring
- Crop management/biophysical parameter retrieval
- Soil parameter retrieval
- Timeseries analysis for agricultural monitoring using convolutional neural networks
- Yield protect/stress detection
- Field boundaries
- Yield prediction

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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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