Special Issue

Crop Classification Using Synthetic Aperture Radar and Optical Imagery

Message from the Guest Editors

Combining SAR data with optical data can provide valuable insights into crop characteristics over large areas; SAR satellites offer high spatial resolution and frequency, making them a complementary tool in optical imagery for crop monitoring. This Special Issue aims to present the state-of-the-art research in optical, SAR, PolSAR, and PolInSAR imagery for predictive agricultural crop monitoring using publicly available and commercial datasets, including but not limited to the following areas:

- Crop classification using densely sampled time series information of optical and SAR imagery;
- Application of machine learning algorithms in crop classification using SAR and optical imagery;
- Fusion of radar and optical imagery for crop classification;
- Comparison of crop classification using SAR and optical imagery;
- Crop yield prediction using SAR and optical imagery;
- Forest land cover mapping and pattern analysis;
- Biomass estimation from SAR and optical imagery;
- Exploring deep learning's potential for crop classification with SAR and optical imagery.

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Message from the Editorial Board

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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