Special Issue

Hydro-Geoinformatics and Advanced Remote Sensing Technologies for Sustainable Agriculture

Message from the Guest Editors

This Special Issue of Remote Sensing aims to bring together high-quality research on emerging methodologies, applications, and case studies that leverage hydro-topographic analysis, geospatial modeling, and remote sensing data fusion for advancing sustainable agriculture. Potential topics include, but are not limited to, the following:

- Spatiotemporal hydro-topographic modeling for agricultural land management;
- Integration of multisource remote sensing data (e.g., SAR, Muti-/Hyper-Spectral, LiDAR, and UAV) for agricultural monitoring;
- Integration of Earth observation data with cloud-based geoinformatics platforms (e.g., Google Earth Engine) for hydrological and environmental applications in agriculture;
- Soil moisture estimation and its relationship to crop yield and biomass;
- AI techniques (machine learning and deep learning) for analyzing spatiotemporal variability in crop yield and prediction;
- Phenological mapping using optical and radar vegetation indices with metrological data;
- Case studies on hydrological remote sensing in agricultural and environmental applications.

Guest Editors

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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

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