

Special Issue

Advanced Remote Sensing Techniques in Agriculture and Artificial Intelligence

Message from the Guest Editors

This Special Issue aims to bring together cutting-edge research and applications that leverage AI/machine learning/deep learning methods to address complex challenges in agricultural remote sensing data processing, analysis, and interpretation. We welcome submissions that feature novel algorithms, innovative data fusion strategies, and practical applications that demonstrate significant advancements for precision agriculture. Topics of interest include, but are not limited to, the following:

- AI-powered crop type mapping and classification.
- Deep learning for disease, pest, and weed detection/early warning systems.
- Fusion of multi-source RS data using AI.
- Predictive modeling for yield forecasting and water/nutrient stress.
- Machine learning for agricultural Big Data processing and decision support.
- Novel applications of RS and AI in livestock, forestry, or aquaculture.
- Novel AI architectures tailored for agricultural remote sensing signals.
- AI-enabled crop phenotype retrieval, stress detection, yield forecasting, and quality assessment.
- Climate-smart agriculture and carbon-sequestration monitoring via AI-enhanced remote sensing

Guest Editors

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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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