

Special Issue

Multi-Modal Remote Sensing and Data Assimilation for Crop Type Mapping, Growth, Phenology and Yield Estimation

Message from the Guest Editors

Recent advances in remote sensing data collection, analysis, and communication have significantly broadened its application in agricultural research.

Multi-modal remote sensing and data assimilation offer tailored approaches by integrating diverse data sources (e.g., optical, radar, LiDAR, thermal, field data, and weather) and platforms (satellite, airborne, UAVs, and ground-based) into a single analytical process. While these methods can produce accurate results efficiently, they involve handling complex, large-scale datasets, especially for high-spatial resolution within-field applications.

This Special Issue focuses on crop type mapping, growth, phenology, and yield estimation to support informed decision-making and sustainable agricultural practices. It encourages large-scale, multi-season studies with robust statistical validation, showcasing innovative research and methodologies to enhance agricultural outcomes and their operational applications

Guest Editors

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Deadline for manuscript submissions

31 August 2026



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.4



mdpi.com/si/268350

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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.

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