



Precision Agriculture Monitoring Using Remote Sensing

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Message from the Guest Editors

Precision agriculture aims at gathering, processing, and analyzing spatiotemporal data in soil (e.g., soil texture and soil moisture) and crop variables related to crop health and dynamics (e.g., leaf area index and leaf chlorophyll content, and water and nitrogen stress) to obtain site-specific crop management strategies for improving resource use efficiency, reducing environmental effects, and maximizing crop productivity. Early crop mapping or real-time monitoring of crop growth is demanded in precision agriculture.

This Special Issue focuses on novel methods and applications for precision agricultural monitoring using multi-source remote sensing data. Research areas may include, but are not limited to, the following:

- (1) Crop variables (LAI, biomass, height, chlorophyll, and nitrogen) estimation;
- (2) Crop phenology detection;
- (3) Crop stress (water, nutrient, etc.) identification;
- (4) Crop yield prediction;
- (5) Crop type mapping;
- (6) Site-management zone delineation;
- (7) Soil property mapping;
- (8) Multi-source, multi-modal data fusion.





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Message from the Editor-in-Chief

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