

Special Issue

Precision Agriculture Monitoring Using Remote Sensing

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.

Guest Editors

Dr. Chunhua Liao

Dr. Taifeng Dong

Dr. Jiali Shang

Prof. Dr. Jinfei Wang

Deadline for manuscript submissions

closed (30 June 2023)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.2



mdpi.com/si/140882

Agronomy

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy/)





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 6.2



[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)



About the Journal

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

Agronomy is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)