

# Special Issue

## Integrating Yield Maps, Soil Data, and IoT for Smarter Farming

### Message from the Guest Editor

The integration of yield maps, soil data, and Internet of Things (IoT) technologies is a crucial tool in precision agriculture (PA), allowing for smarter, data-driven farming practices that optimize crop yields, resource utilization, and sustainability. Recent research has demonstrated that integrating real-time sensor networks, advanced data analytics, and machine learning models enables the precise monitoring of soil health, crop growth, and environmental conditions, ultimately leading to enhanced decision-making and operational efficiency. Agriculture 4.0 emerged in the early 2010s, driven by the adoption of the IoT, sensors, and data analytics for PA; next, Agriculture 5.0 was conceptualized in the late 2010s and early 2020s, with implementation still in its early stages, integrating advanced technologies like artificial intelligence and robotics, with a stronger emphasis on sustainability, human-centric design, and social impact. This Special Issue aims to promote advances in modeling and integrating yield maps, soil data, and IoT for Agriculture 4.0 and 5.0. We invite you to submit articles on these subjects.

---

### Guest Editor

Prof. Dr. Eduardo Godoy de Souza

Laboratory of Agricultural Mechanization and Precision Agriculture (LAMAP), Technological and Exact Sciences Center, State University of West Paraná (UNIOESTE), Cascavel 85819110, PR, Brazil

---

### Deadline for manuscript submissions

28 February 2026



# Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/si/250141](https://mdpi.com/si/250141)

*Agronomy*  
Editorial Office  
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 3.4  
CiteScore 6.7

---



[mdpi.com/journal/  
agronomy](http://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 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)

