Special Issue

Smart Farming: Advancing Techniques for High-Value Crops

Message from the Guest Editors

In the era of polycrisis that we are currently living in, the agricultural sector is facing big challenges: climate change, energy and economic crises, urbanization, an ageing population and labor shortages. Smart farming can contribute significantly and mitigate these challenges, especially for high-value crops such as orchards, vineyards and vegetables, which exhibit higher needs as regards crop monitoring and management. The main aim of this issue is to identify smart farming-based solutions for high-value crops that hold the key to mitigate the impact of the aforementioned challenges. Researchers are invited to contribute original research articles, reviews, and perspectives that encompass a wide range of topics within the realm of smart farming of high-value crops. The Issue's scope includes, but is not limited to, investigations into the use of farm machinery, human–machine interaction, AI, extended reality, IoT, smart sensors, ground and aerial robotics, decision support systems, remote sensing, adoption, and environmental impact.

Guest Editors

Dr. Thanos Balafoutis

Center for Research and Technology Hellas (CERTH), Institute for Bio-Economy and Agri-Technology (iBO), Charilaou-Thermi Rd., 57001 Thessaloniki, Greece

Dr. Evangelos Anastasiou

Department of Natural Resources Management & Agricultural Engineering, Agricultural University of Athens, Iera Odos 75, 11855 Athens, Greece

Deadline for manuscript submissions

30 November 2025

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/238077

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

mdpi.com/journal/agronomy

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/journal/agronomy

MDPI

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)