Special Issue

The Application of Remote Sensing for Agricultural Monitoring

Message from the Guest Editors

Remote sensing techniques are powerful tools for monitoring and evaluating soil water and nutrient conditions, crop growth, and other environmental indicators. To advance and optimize technology, analysis, and monitoring methods, this Special Issue welcomes original research and comprehensive reviews on the following topics: (1) advancements in remote sensing equipment and application scenarios, (2) enhanced fusion of multi-source remote sensing data for retrieving biophysical and biochemical variables of crops and soils, (3) innovative methodologies and image analysis tools for agricultural monitoring using remote sensing data, and (4) expanding the scope of remote sensing applications in agricultural monitoring.

Keywords

- remote sensing
- crop monitoring
- algorithms
- machine learning
- artificial intelligence
- field management

Guest Editors

Dr. Wei Xue

Colleague of Ecology and Environment, Xinjiang University, Urumqi 830017, China

Dr. Ruyin Cao

School of Resources and Environment, University of Electronic Science and Technology of China, Chengdu 611731, China

Deadline for manuscript submissions

30 November 2026

AgriEngineering

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.7

mdpi.com/si/257719

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

mdpi.com/journal/agriengineering

AgriEngineering

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.7

mdpi.com/journal/agriengineering

About the Journal

Message from the Editor-in-Chief

AgriEngineering (ISSN 2624-7402) is an international open access, open-source, and cross-disciplinary scientific journal on the engineering science of agricultural and horticultural production. Our aim is to encourage scientists to publish their experimental and theoretical research, along with the full set of schematics, source-code, and mechanical design models leading to accelerated and rapid dissemination of leading-edge technologies emerging in agricultural, environmental, and agronomic engineering. *AgriEngineering* publishes articles, technical notes, reviews, commentaries, and case/field reports, as well as Special Issues on particular subjects.

Editor-in-Chief

Prof. Dr. Francesco Marinello
Department of Land, Enviroment, Agriculture and Orestry, University of Padova, 35020 Legnaro, Padova, Italy

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), PubAg, FSTA, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Agricultural Engineering) / CiteScore - Q1 (Horticulture)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 25.8 days after submission; acceptance to publication is undertaken in 5.7 days (median values for papers published in this journal in the first half of 2026).