Special Issue

Remote Sensing Assessment of Soil and Crop Health Under Varying Agronomic Practices

Message from the Guest Editors

This Special Issue focuses on the transformative role of remote sensing (RS) in evaluating the impact of diverse agrotechnical practices on soil and crop health. Traditional field sampling is costly and spatially limited, whereas advanced RS, using satellites, UAVs, and sensors such as hyperspectral sensors and LiDAR, enables non-invasive monitoring at scale. The aim of this Special Issue is to consolidate research that quantifies how practices such as conservation tillage, cover cropping, and fertilization affect key indicators such as soil organic carbon, moisture, crop nutrient status, and water stress. We seek original research, review articles, and methodological papers and are particularly interested in submissions utilizing cutting-edge approaches such as AI/machine learning, sensor fusion, and time-series analysis. Contributions that present rigorous validation studies that compare RS data with ground-truth measurements across various scales are also welcome.

Guest Editors

Dr. Dorijan Radočaj

Department of Agricultural Engineering and Renewable Energy Sources, Faculty of Agrobiotehnical Sciences Osijek, Josip Juraj Strossmayer University of Osijek, Vladimira Preloga 1, 31000 Osijek, Croatia

Dr. Lucija Galić

Department of Agroecology and Environment Protection, Faculty of Agrobiotehnical Sciences Osijek, Josip Juraj Strossmayer University of Osijek, Vladimira Preloga 1, 31000 Osijek, Croatia

Deadline for manuscript submissions

31 August 2026

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/261757

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), GEOBASE, PubAg, AGRIS, and other databases.

Journal Rank:

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