Special Issue

Advances in Remote Sensing Agronomic Application for Mapping and Modeling Soil Properties

Message from the Guest Editors

Soil plays a crucial role as a natural resource that sustains life on Earth, providing a wide range of ecosystem services, such as the production of food, recycling of nutrients, sequestration of carbon, and provision of habitat. Global warming, land use and land cover changes, and unsustainable agricultural practises contribute to accelerated soil quality loss. In spatial explicit analysis related to both agricultural and environmental issues, soil is one of the most important criteria to be considered. Although the assessment of soil properties is key to monitor soil health, data availability is scarce. Accordingly, in recent years, the potential of modern technologies and advanced methods like remote sensing has been widely investigated for mapping and monitoring soil properties. However, the obtained accuracies in previous research have varied, largely depending on various factors such as the spatial/spectral resolutions of sensors, the used methodology, and the study sites. In this context, the identification of new, reliable remote sensing techniques to monitor soil health and model soil dynamics at different spatial scale becomes extremely important.

Guest Editors

Dr. Anna Rita Bernadette Cammerino

Department of Science of Agriculture, Food and Environment, University of Foggia, 71122 Foggia, Italy

Prof. Dr. Massimo Monteleone

Department of Agriculture, Food and Environment, University of Foggia, 71122 Foggia, Italy

Deadline for manuscript submissions

20 July 2026

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/213575

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)