Special Issue

GIS and Remote Sensing for Soil Quality Assessment

Message from the Guest Editor

Geographic information systems (GISs) and remote sensing (RS) are fundamental technologies in the sustainable management of agricultural soils, integrating spatial data in monitoring and modeling farming practices. By utilizing GISs for spatial analysis and RS for acquiring spatio-temporal data, farmers and policymakers can make informed decisions that promote sustainable practices. An important issue in this domain is the development of high-resolution satellite sensors and drones equipped with multispectral and hyperspectral cameras. Machine learning algorithms are increasingly being used to analyze large datasets from GISs and RS, providing predictive models for soil management. We are soliciting papers that explore innovative methodologies and applications of GISs and RS in sustainable soil management. Topics of interest include, but are not limited to, soil moisture and nutrient mapping, integration of AI with GISs and RS in soil quality assessment, and case studies demonstrating successful implementations of these technologies in agricultural soils. Finally, we welcome the submission of all types of articles, including original research, reviews, and short communications.

Guest Editor

Dr. Dimitrios Triantakonstantis

Department of Sustainable Agriculture, University of Patras, 2 Seferi, GR-30100 Agrinio, Greece

Deadline for manuscript submissions

closed (15 June 2025)



Agriculture

an Open Access Journal by MDPI

Impact Factor 3.6 CiteScore 6.3



mdpi.com/si/211117

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

mdpi.com/journal/agriculture





Agriculture

an Open Access Journal by MDPI

Impact Factor 3.6 CiteScore 6.3



About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, 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, RePEc, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)

