



Remote Sensing, GIS, and AI in Agriculture

Guest Editors:

Dr. Eraldo Aparecido Trondoli Matricardi

Department of Forestry, College of Technology, University of Brasilia, Brasilia, Brazil

Dr. Osmar Abilio De Carvalho Júnior

Department of Geography, University of Brasilia, Brasilia 70910-900, Brazil

Deadline for manuscript submissions:
closed (28 February 2023)

Message from the Guest Editors

Agriculture is undergoing a significant transformation with the advent of emerging technologies, integrating high-resolution remote sensing images (spatial, spectral, and temporal), geographic information systems (GIS), global positioning systems (GPS), artificial intelligence (AI), and Big Data analysis in cloud computing systems. Therefore, this Special Issue aims to address these technological innovations in the various topics of agronomy: agricultural monitoring, yield prediction, irrigation management, methods to optimize yield (automated and accurate application of water, fertilizers, herbicides, and insecticides), precision agriculture, pest management, and agriculture-focused ecosystem services. In this challenging field, this Special Issue seeks to collect studies and discuss solutions for advancing methodologies in reliable agricultural management, monitoring, and forecasting systems from imagery information and geospatial data considering new approaches to data processing and AI.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture,
Water and Environment
Research, Charles Sturt
University, Wagga Wagga, NSW
2678, Australia

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.

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)

Contact Us

Agronomy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/agronomy
agronomy@mdpi.com
X@Agronomy_Mdpi