

IMPACT FACTOR 3.7



an Open Access Journal by MDPI

Crop Production Parameter Estimation through Remote Sensing Data

Guest Editors:

Dr. Yanbo Huang

Genetics and Sustainable Agriculture Research Unit, United States Department of Agriculture, Agriculture Research Service, Starkville, MS 39762, USA

Dr. Xin Zhang

Department of Agricultural and Biological Engineering, Mississippi State University, Starkville, MS 39762, USA

Dr. Chandan Kumar

USDA-ARS Crop Production Systems Research Unit/Department of Plant and Soil Sciences, Mississippi State University, Starkville, MS 39762, USA

Deadline for manuscript submissions:

30 September 2024

Message from the Guest Editors

Highly accurate and reliable estimation of crop production parameters, such as biomass and yield, is critical for improved crop production process management and strategic planning. Remote sensing has been studied and developed for estimating plant biomass and crop yield. This Special Issue aims to provide a comprehensive view of the development and application of crop production parameter estimation using remote sensing from satellite, airborne, manned, and unmanned aerial vehicles to ground-based systems. In recent years, machine/deep learning has been developed and applied to increase the accuracy and reliability of crop production parameter estimation using remotely sensed data. This Special Issue wishes to explore the achievements in but does not limit itself to, the following scopes of crop production parameter estimation for biomass, yield, or any other related parameters using remote sensing: (1) at the national or regional scale for crop production planning; (2) at farm or field scale for precision agriculture operations; (3) assimilation of remote sensing data into crop models and (4) developing specialized machine/deep learning schemes and algorithms.









an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Peter Langridge

School of Agriculture, Food and Wine, University of Adelaide, Urrbrae, SA 5064, 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), PubAg, AGRIS, and other databases.

Journal Rank: JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)

Contact Us