



Computer Vision and Deep Learning Technology in Agriculture

Guest Editor:

Dr. Juncheng Ma

College of Water Resources and
Civil Engineering, China
Agricultural University, Beijing,
China

Deadline for manuscript
submissions:

closed (30 September 2023)

Message from the Guest Editor

Dear Colleagues,

Agriculture is complex and hard to predict. Computer vision offers us opportunities to better understand agriculture by processing data in a visible manner. Deep learning, which belongs to the machine learning field, is a modern technique for image processing and data analysis, with promising results and great potential. Recent advances in deep learning have significantly promoted computer vision applications in agriculture, providing solutions to many long-lasting challenges.

This Special Issue of *Agronomy* aims to provide coverage of advances in the development and application of computer vision, machine learning, and deep learning techniques for solving problems in agriculture. Papers on new techniques for processing high-resolution images collected with RGB, multispectral and hyperspectral sensors from the air (with UAVs, for instance) or from the ground are also welcome. We encourage you to share your research on state-of-the-art applications of computer vision and deep learning in agriculture and to submit your paper to this Special Issue.

Dr. Juncheng Ma
Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Graham Centre for Agricultural
Innovation, 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), PubAg, AGRIS, and other databases.

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

Contact Us

Agronomy Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/agronomy
agronomy@mdpi.com
[X@Agronomy_Mdpi](https://twitter.com/Agronomy_Mdpi)