



Computer Vision for Intelligent Crop Identification and Crop Protection

Guest Editors:

Dr. Wen-Hao Su

College of Engineering, China
Agricultural University, Beijing
100083, China

Dr. Zhou Zhang

Department of Biological
Systems Engineering, University
of Wisconsin-Madison, 230
Agricultural Engineering Building,
460 Henry Mall, Madison, WI
53706, USA

Deadline for manuscript
submissions:

closed (20 December 2023)

Message from the Guest Editors

Dear Colleagues,

Affected by climate change and other factors, crops are susceptible to a variety of diseases, pests, and weeds, resulting in production loss and quality degradation. Crop protection is the science and practice of managing plant diseases, weeds, and pests that damage agricultural crops. Herbicides, insecticides, and fungicides are widely used for crop protection in agricultural areas. However, conventional protocols of weed control or phenotyping crop disease severity are a costly and time-consuming process. This context requires the development of smart technologies to accelerate the selection of disease-resistant crops, or to apply compounds or alternative products to targets to control diseases, pests, or weeds. This Special Issue focuses on computer vision using near-ground and airborne cameras to identify plant traits for crop protection. We would like to invite experts and researchers in the field to contribute original and high-quality research articles and reviews to the journal (*Agriculture* or *Agronomy*) peer-reviewed Special Issue: “Computer Vision for Intelligent Crop Identification and Crop Protection”.





an Open Access Journal by MDPI

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

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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 - Q2 (*Plant Science*)

Contact Us

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

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

mdpi.com/journal/agriculture
agriculture@mdpi.com
[X@AgricultureMdpi](https://twitter.com/AgricultureMdpi)