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".

mdpi.com/si/89343

Special Issue

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