



## Imaging Technology for Detecting Crops and Agricultural Products-II

Guest Editors:

**Dr. Ahmed Kayad**

Intermountain Research and  
Extension Center, University of  
California, Tulalake, CA 96134,  
USA

**Dr. Ahmed Rady**

Food, Water, Waste Research  
Group (FWW), Faculty of  
Engineering, University of  
Nottingham, University Park,  
Nottingham NG7 2RD, UK

Deadline for manuscript  
submissions:

**closed (31 January 2024)**

### Message from the Guest Editors

Imaging applications for several purposes in agriculture are rapidly improving, at different scales, and have the potential to be key elements of sustainable agricultural intensification systems. In particular, satellite and drone imagery provides solutions for monitoring field crops and their within-field variability regarding crop health status, weed detection and yield monitoring. Imaging applications are usually coupled with machine-learning algorithms as a means of developing classification and regression models. Deep learning is a relatively new machine-learning technique that has gained importance in different fields in the agri-food chain, especially with the significant advancement of imaging-acquisition hardware, as well as the computational power available from personal computers with high-capability GPUs, as well as high performance cloud-based computational servers. The main goal of this Special Issue is to exchange knowledge, ideas, analytical techniques, applications and experiments that use imagery solutions in the field of agricultural applications.





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**

---

*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