



Technological Innovation for Measurements on Crop Physiological and Agronomic Traits

Guest Editor:

Dr. Surya Kant

1. Agriculture Victoria, Grains
Innovation Park, 110 Natimuk Rd,
Horsham, VIC 3400, Australia
2. School of Applied Systems
Biology, La Trobe University,
Bundoora, VIC 3083, Australia

Deadline for manuscript
submissions:

closed (15 December 2023)

Message from the Guest Editor

Dear Colleagues,

The development of novel techniques in agriculture are playing key roles for faster and automated measurements of crop physiological and agronomic traits for breeding of improved crop varieties. These advancements are increasing the precision, accuracy, and throughput of data collection, while reducing costs and resource usage, as well as improving our understanding of novel crop traits previously unexplored due to method or resource constraints.

In this Special Issue, we aim to cover advanced digital, automated, and reliable measurements and data analytics for traits such as growth (e.g., biomass, growth rate, yield), morphological (plant height, area, branching, architecture), phenological (growth stages), plant health (greenness, senescence), and physiological (canopy temperature, chlorophyll, nitrogen, photosynthesis). These measurements are deployed in crops under various scenarios, including but not limited to biotic and abiotic stress tolerance, increasing nutrient use efficiency, crop monitoring, and yield and quality improvement.





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)