Special Issue

Data-Driven Agricultural Innovations with Artificial Intelligence and Industrial Internet of Things (IIoT)

Message from the Guest Editors

The agricultural sector has a rich history of adopting novel technologies to boost productivity, decrease risk, and improve sustainability. The opportunities presented by such technological integration are numerous, but they also come with new and evolving challenges. Innovations including real-time monitoring and controlling crop irrigation systems via smartphones, crop sensors, intelligent livestock farming technology using UAV-based computer vision and deep AI technologies, farm automation, indoor vertical farming, modern greenhouses, precision agriculture, blockchain for distributed data sharing and commodity exchange, and access to the industrial internet of things through the fog and edge computing, have all benefited the agricultural sector. One shared characteristic of these technologies is the important role that "data" plays in driving their success by achieving the proposed benefits.

Guest Editors

Dr. Paul Kwan

School of Engineering and Technology, CQUniversity Brisbane, 160 Ann St., Brisbane City, QLD 4000, Australia

Prof. Dr. Wensheng Wang

Agricultural Information Institute, Chinese Academy of Agricultural Sciences, Beijing 10081, China

Deadline for manuscript submissions

closed (31 March 2023)

Agriculture

Agriculture

an Open Access Journal by MDPI

Impact Factor 3.6 CiteScore 6.3

mdpi.com/journal/agriculture

About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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

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 - Q1 (Plant Science)

MDPI