



IoT in Agriculture: Rationale, State of the Art and Evolution

Guest Editors:

Dr. Dae-Hyun Jung

Department of Smart Farm
Science, Kyung Hee University,
Giheung-gu, Yongin-si 17104,
Republic of Korea

Dr. WooJae Cho

Division of Agro-System
Engineering, College of
Agriculture and Life Science,
Gyeongsang National University,
Jinju 52828, Republic of Korea

Deadline for manuscript
submissions:

31 August 2024

Message from the Guest Editors

Dear Colleagues,

The advent of the Internet of Things (IoT) has brought about a paradigm shift in various sectors, and agriculture is no exception. The integration of IoT in agriculture, often referred to as smart farming or precision agriculture, has the potential to revolutionize the way we approach farming, leading to more efficient and sustainable agricultural practices.

This Special Issue delves into the topic of the Internet of Things (IoT) in agriculture, focusing on its rationale, current state, and evolution. The evolution of IoT in agriculture is an ongoing process, with emerging sophisticated solutions and convergence with technologies such as AI, blockchain, and 5G. Despite progress, challenges such as high costs, data privacy, lack of standardization, and the digital divide persist. This Special Issue invites contributions exploring innovative IoT technologies, applications, strategies, and future directions in smart farming that aim to advance sustainable farming systems for the future.

Dr. Dae-Hyun Jung

Dr. WooJae Cho

Guest Editors





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](https://twitter.com/Agronomy_Mdpi)