# **Special Issue**

# Artificial Intelligence-Driven Green Agriculture for Sustainable Development

### Message from the Guest Editors

Digital agriculture has developed rapidly and significantly improved productivity in recent years. However, chemical pesticides, plastic film residues, irrigation water waste and other problems in traditional agricultural production still present serious setbacks in different countries and regions. Smart agricultural research driven by artificial intelligence could solve these problems and aid the pursuit of realizing green agriculture for sustainable development. This Special Issue will publish both original articles and reviews considering intelligent applications in agriculture. Papers covering artificial intelligence techniques advancing sustainable development are welcome.

- The early and timely identification and monitoring of crop pests and diseases, preventing major disasters;
- Soil moisture monitoring and weather prediction, informing irrigation for water saving;
- Unmanned harvesting machines, which coordinate operations to increase harvest efficiency and reduce fuel consumption and carbon emissions;

..

### **Guest Editors**

Dr. Yang Li

College of Mechanical and Electrical Engineering, Shihezi University, Shihezi 832003, China

Prof. Dr. Jiachen Yang

School of Electrical and Information Engineering, Tianjin University, Tianjin 300000, China

### Deadline for manuscript submissions

closed (20 May 2024)



# Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/120027

Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

mdpi.com/journal/ sustainability





## Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



## **About the Journal**

### Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

#### Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University, Columbus, OH 43210, USA

#### **Author Benefits**

### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

