

Special Issue

Adoption of New Technologies and Practices for Sustainable and Smart Agriculture

Message from the Guest Editors

Sustainable agricultural systems are crucial to human survival and social development. In recent years, with the development of information technology, artificial intelligence (AI) has been gradually applied to all aspects of farming management in agricultural systems. To solve the complex problems in AI-driven sustainable and smart agricultural systems, the adoption of new technologies and practices needs to be the focus. Research areas may include (but are not limited to) the following:

- Multi-source or multi-modal data fusion and processing in smart agricultural applications;
- Power management of AI-driven software systems in smart agricultural applications;
- Data mining and quality assessment in smart agricultural applications;
- Cloud computing and edge computing for smart agricultural applications;
- Reinforcement learning based decision support in smart agricultural systems;
- Wireless sensor networks for agricultural environment monitoring and forecasting;
- Data-efficient algorithms and model acceleration in smart agricultural applications;
- Intelligent algorithms with reduced power, energy, data, and heat for high-performance computing

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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.

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