Special Issue

Advancements in Remote Sensing and AI-Driven Analytics for Sustainable Agriculture

Message from the Guest Editors

As the global agricultural landscape faces challenges posed by climate change, resource scarcity, and a growing demand for food, AI and remote sensing technologies offer solutions that promote sustainable farming practices. AI-based models such as reinforcement learning and optimization algorithms are revolutionizing crop management, pest control, and irrigation systems, enhancing both economic and environmental sustainability. This Special Issue aims to highlight the latest advancements in the application of remote sensing and AI-driven analytics in agriculture. The scope of this Special Issue includes, but is not limited to, the following topics:

- Remote sensing for crop monitoring
- Machine learning and deep learning in agriculture
- Precision farming and resource optimization
- AI-driven pest and disease management
- IoT and sensor networks in agriculture
- Data-driven agriculture and climate adaptation
- Sustainable agricultural practices
- Agricultural robotics and automation

Guest Editors

Dr. Feiyu Zhu
Institute of Remote Sensing and Digital Agriculture, Sichuan Academy of Agricultural Sciences, Chengdu 610066, China

Dr. Xia Qiu
Institute of Remote Sensing and Digital Agriculture, Sichuan Academy of Agricultural Sciences, Chengdu 610066, China

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

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Dr. Mathew G. Pelletier
Retired Scientist from Agricultural Research Service, United States Department of Agriculture, Lubbock, TX, USA

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