

Special Issue

Irrigation Management in the Digital Age: To Enhance Resource Efficiency and Sustainability

Message from the Guest Editor

Precision agriculture has emerged as a promising approach to address the global challenges of food security, resource depletion, and environmental sustainability. The integration of advanced technologies, such as remote sensing, data analytics, and intelligent irrigation systems, has enabled the optimization of resource utilization and improved agricultural productivity. Efficient resource management, particularly of water, is critical for enhancing agricultural sustainability and resilience in the face of climate change and increasing population pressures. This Special Issue aims to showcase innovative research and technological advancements in precision agriculture. Topics may include, but are not limited to, water-saving irrigation technologies, multi-source remote sensing applications in agriculture, soil moisture monitoring, and the integration of smart technologies for sustainable agricultural practices. We invite high-quality original research articles, reviews, and case studies that focus on precision agriculture, resource efficiency, and sustainability. Both theoretical and practical contributions are welcome.

Guest Editor

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Editor-in-Chief

Prof. Dr. Leslie A. Weston

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