



## Precision Agriculture Techniques for Sustainable Water and Soil Management

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### Message from the Guest Editors

The scope of this Special Issue is to explore a range of innovative methodologies, technologies, and agricultural equipment, designed to increase productivity, optimize resource management, and chemical inputs utilization in agriculture. This includes precision irrigation systems, AI-based crop treatment equipment, soil monitoring technologies using drones and remote sensing, data analytics for resource management, and sustainable farming practices. The aim is to consolidate cutting-edge research and various practical applications that promote efficiency, sustainability, and environmental protection in agricultural practices.

We propose establishing clean agroecosystems that enhance sustainable food production, promote soil health in marginal lands, and protect soils from erosion and landslides.

Some non-limiting domain recommendations for the proposed papers are as follows:

- Integration of IOT and sensor-based technologies in precision agriculture;
- Production of highly efficient biofertilizers;
- Applications of artificial intelligence in agriculture;
- Advanced aquaponic systems;
- Soil health assessment methods and strategies;
- Case studies of sustainable farming practices.



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## Message from the Editor-in-Chief

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