Special Issue

Sustainable Precision Agriculture with Wireless Sensor Networks in Crop Monitoring Aligned with SDGs

Message from the Guest Editors

The rapid evolution of precision agriculture technologies has significantly transformed crop production by integrating wireless sensor networks (WSNs) and data-driven solutions. These technologies are not only improving efficiency and productivity but are also contributing to the global sustainability goals as outlined in the United Nations Sustainable Development Goals (SDGs). In crop production, soil sensors, nutrient level detectors, remote sensing via drones or satellites, and automated systems are commonly employed. The result is not only improved crop yields but also reduced input costs and more sustainable farming practices in line with SDGs 12 (responsible consumption and production) and 13 (climate action).

This Special Issue invites submissions that explore the role of wireless sensor networks, IoT, and AI in enhancing precision agriculture, with a particular focus on how these technologies align with the goals of sustainable development. Research on the use of big data and inter-seasonal databases to predict agricultural outcomes and improve decision-making in crop is particularly encouraged.

Guest Editors

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