Special Issue

Smart Sensors and IoT Solutions for Sustainable Agriculture and Aquaculture Practices

Message from the Guest Editors

This Special Issue focuses on the vital role of wireless sensor networks (WSNs) and IoT technologies in advancing sustainability in agricultural and aquacultural systems. These technologies, including NB-IoT, Zigbee, and LoRa, enable the widespread deployment of smart sensors that monitor critical environmental conditions, such as soil moisture, temperature, water quality, and oxygen levels. By providing real-time data, these sensors allow for precise management of resources, which is essential for reducing environmental impacts and promoting sustainable practices. This Special Issue will cover a broad range of topics, including the following: Climate-Smart Agriculture Technologies;
Machine Learning Applications in Agriculture and Aquaculture;
Smart Irrigation and Aquaculture Management Systems;
Environmental Sensing for Sustainable Practices;
Digital Agriculture and Aquaculture Solutions;
AIoT in Agri-Aqua Management;
Wireless Sensor Networks for Agri-Aqua Monitoring;
Controlled Environment Agriculture (CEA) Technologies;
UAVs and UASs for Precision Agriculture and Aquaculture;
Deep Learning and Artificial Intelligence for Data Analysis.

Guest Editors

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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. *Sustainability* publishes original research articles, review 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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