

Special Issue

Sensor-Based Precision Agriculture

Message from the Guest Editors

The integration of intelligent technologies is one of the solutions to the sustainability and efficiency of agricultural practices, including next-generation sensors, communications, autonomous flight systems, artificial intelligence, robotics, and analytics. This Special Issue is dedicated to investigating the research and development of solid-state sensors to collect varied agricultural data. The aim is to monitor biochemical parameters, such as nutrition, humidity, temperature, light, and pH in real time, and biochemical interactions, such as predation, parasitism, and competition. Sensors are used at different spatial and time scales to provide farmers with data-driven insights into crop and livestock growth and health, pests, pesticides, soil health, water, fruit quality, greenhouse gases, and volatile compounds. This Special Issue will also cover the utilization of low-power sensors, energy harvesting technologies, and high-throughput phenotyping using sensors. We welcome original research, opinions, and reviews covering various specialized crops, including vegetable, ornamental, and field crops and seeds from other managed ecosystems.

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

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