

Special Issue

From Innovation to Field Adoption: Sensing and Robotic Systems in Smart Agriculture

Message from the Guest Editors

Smart Agriculture, or Precision Farming, aims to integrate advanced technologies into agricultural processes that are already highly refined and optimized. A significant challenge slowing the adoption of new technologies is that novel sensors and robotic systems must prove their value and field-effectiveness without disrupting this optimization.

This Special Issue invites contributions on novel sensing systems, robotic applications, and data-driven technologies that directly address this challenge.

We strongly encourage submissions covering new sensor technologies, data-driven and AI-based processing (including edge devices), sensor fusion, autonomous navigation, and robotic systems that demonstrate a clear focus on real-world effectiveness, scalability, and adoptability. Topics for this issue could relate to, but are not limited to, the following:

Agricultural Robotics; Intelligent Sensing Systems; Robotic Perception; Multi-Sensor Fusion; Autonomous Agricultural Vehicles; AI for Precision Agriculture; Edge Computing for Agriculture; Agricultural Remote Sensing; Smart Soil and Crop Monitoring; Agricultural Technology Adoption

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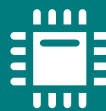
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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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