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Artificial Intelligence and Sensor Technologies in Agri-Food

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Deadline for manuscript
submissions:

closed (28 March 2024)

Message from the Guest Editors

This special issue aims at disseminating the latest original research and reviews in exploiting new theoretical advancements, applications, hardware and software systems, and new challenges in the field of agri-food.

Potential topics, applied to any area within agri-food, include but are not limited to:

- Novel sensors and wireless sensor networks for internet of agri-food things
- Multimodal learning and domain adaptation for agri-food data
- Agri-food data sharing and privacy, such as federated learning, fully homomorphic encryption, differential privacy, etc.
- End-to-end deep learning systems for precision agriculture
- Agri-robotic systems in the wild
- Human-Robot Collaboration in agriculture
- AI-enabled smart polytunnel systems
- Multi-task learning for decision making under uncertainty
- Remote sensing and UAVs in agriculture
- Efficient and sparse machine learning systems
- Integration of robotic and computer vision systems
- Neuro-symbolic systems for explainable and transparent decision making in agri-food
- Natural language generation systems for automated reporting to agri-food stakeholders
- Advanced yield forecasting and sustainability action planning systems



mdpi.com/si/132645

Special Issue



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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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