

Special Issue

Innovations in Smart Agriculture: Advanced Sensors and AI Systems Powered by Quantum and Classical Machine Learning

Message from the Guest Editor

Rapid advancements in sensor technologies and the rise of artificial intelligence (AI) are ushering in a new era of intelligent systems for smart agriculture and precision farming. This Special Issue invites submissions of original research, reviews, and case studies on the integration of classical and quantum machine learning (ML) algorithms into AI-enabled agricultural systems. With next-generation sensors and IoT devices continuously collecting multi-modal environmental data, AI-driven decision-making systems will play a crucial role in supporting sustainable farming practices, minimising environmental impact, and building resilience in food production. We invite submissions that cover a range of topics, including novel ML/QML algorithms, sensor networks for data collection and monitoring, field-deployable systems, AI interpretability, theoretical foundations, and applications in diverse agricultural settings. Papers that showcase interdisciplinary innovation and real-world applicability are highly encouraged. For more details, please visit [here](#).

Guest Editor

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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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