

Special Issue

Digital Twin-Based Smart Agriculture

Message from the Guest Editors

This Special Issue invites original research articles, reviews, and case studies that explore the development, application, and future prospects of digital twin technologies in agriculture. Topics of interest include, but are not limited to, DT architectures for crop and livestock management, integration with IoT and AI systems, simulation of farming scenarios, precision agriculture applications, and challenges in data interoperability and system scalability. Contributions addressing the socio-economic and environmental impacts of digital twin adoption in agriculture are also highly encouraged. We aim to highlight cutting-edge research that advances the theoretical foundations, technological innovations, and practical applications of digital twin-based smart farming. We welcome submissions from academic researchers, industry practitioners, and policymakers alike. Keywords of the special issue: digital twin (DT); IoT and AI systems; smart sensors; smart agriculture; precision agriculture.

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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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