



IoT Technologies and the Agricultural Value Chain

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Message from the Guest Editors

The agricultural value chain is increasingly complex as it involves numerous activities in growing systems, production planning, handling and markets. IoT implementation presents some benefits to the different actors and activities along the supply and value chain in terms of improved resource use, less waste, better data access and sharing, synchronization, reduced storage and cost, and enhanced consumer information access. Intensive use of ICT involving a large amount of data, intelligent and soft or virtual sensors, control loops, communication networks, storage and cloud services. As such, new business models and value propositions are necessary to reflect and leverage improved processes and products and the overall transformation of agri-food activities through IoT.

Papers included in this Special Issue will address the following areas:

IoT systems development; Precision farming; System integration and interoperability; Data models; IoT networks; Intelligent sensors; IoT sensors; Visualization interfaces; Decision support systems and data-driven decisions; Virtual-soft sensors; IoT-based business models; Data sharing; IoT-based control systems; Robotics; Mechatronics





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