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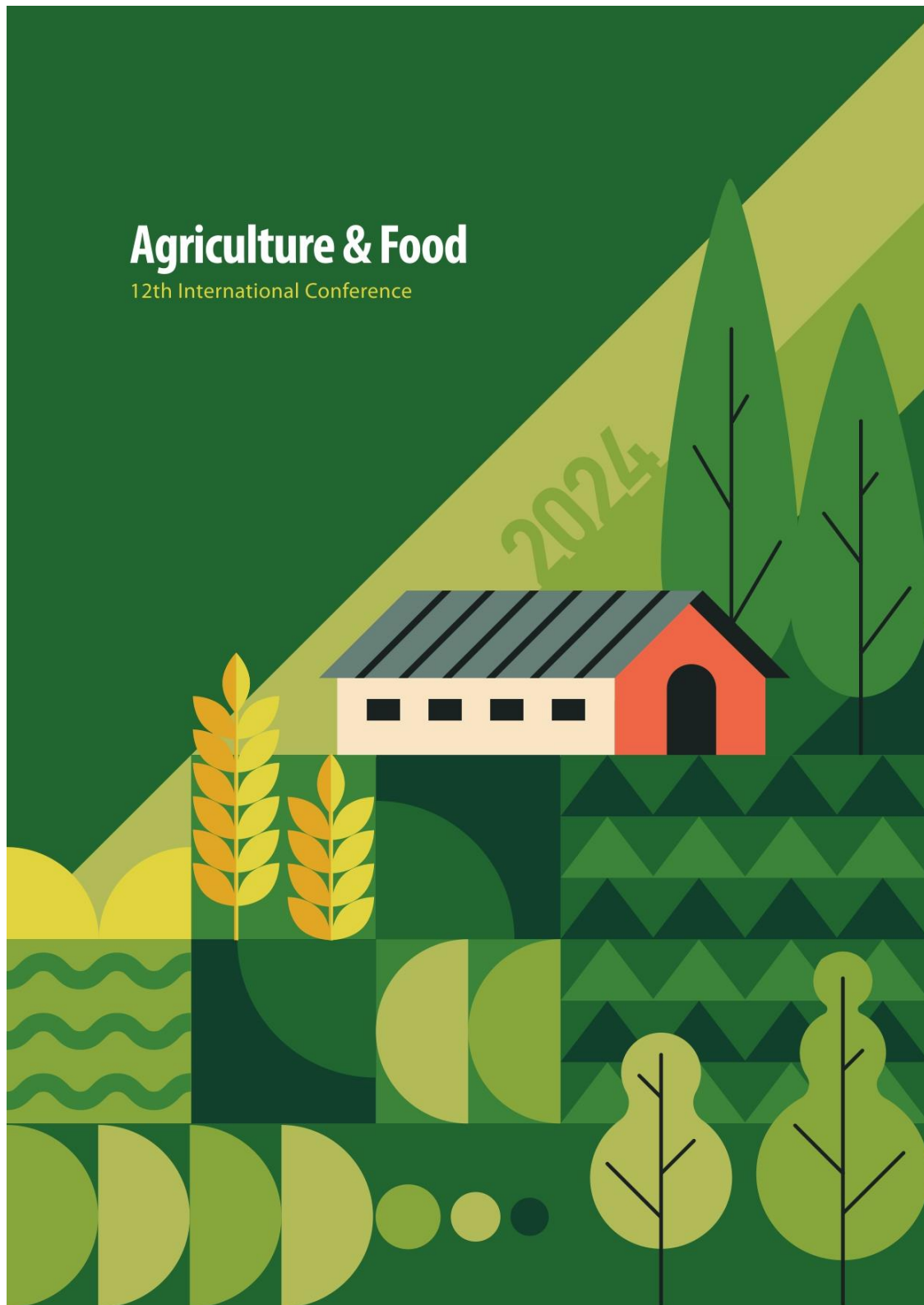
INTEGRATING SENSOR TECHNOLOGY FOR ENHANCED TRACEABILITY IN ORGANIC TABLE OLIVE: A CASE STUDY

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Abstract

This study explores potential routes of sensor technology integration in organic table olives traceability, focusing on a case study in Messolonghi area, Greece. Three organically certified farms producing table olives variety Kalamon, contributing members of local agricultural cooperative were selected: two equipped with drip irrigation and one rain-fed farm, ensure a comprehensive representation of different water management regimes and farming practices. The farmers, as the first link in the product value chain, encounter challenges in accessing benefits and engaging in traceability initiatives. Addressing these issues is crucial for enhancing food safety management throughout the production-consumer chain. The research emphasizes the growing need for traceability systems and organic production due to rising demand for transparent, sustainable olives. Sensor technology aids in preserving organic labeling integrity by capturing crucial origin and production data, while digital technologies streamline processes, promoting sustainable development in organic agriculture, and enhancing organic olive quality. The study explores organic table olive cultivation, showcasing how sensor tech and data-driven methods boost organic farming practices. Soil moisture, temperature, and salinity are identified as key parameters influencing table olive growth dynamics and soil health. Sensor technology enables continuous monitoring of parameters across three organically certified farms producing Kalamon variety table olives with varying soil type and irrigation methods. The study demonstrates how sensor technology effectively provides real-time data insights to optimize cultivation practices, enhance olive quality, and improve farm-to-table traceability. Organic farmers engage in data collection and interpretation, crucial for initiative success. Sensor tech optimizes organic table olive practices for safety.



BOOK OF ABSTRACTS

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