A Hybrid Data Acquisition Model for Precision Agriculture using IoT, Engineering Nanomaterials and Artificial Intelligence

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K.Sankara Moorthy ; Ms. Peddinti Neeraia ; P. Pavitra ; R. Arivumalar ; K. Veeranjaneyulu ; S.Mohana Murali **All Authors**

Abstract:
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Two key ideas for wireless sensor network (WSN) optimization in precision farming serve as the guidelines for this study. According to its definition, a wireless sensor network is a collection of sensor nodes that link to one another and/or with a node outside of their coverage area via wireless communication. These nodes frequently have one or more sensors for evaluating internal or external elements as well as environmental characteristics. A CPU then controls the sensors, compiling, storing, processing, and, if requested, transmitting the data. In some systems, the sensor nodes' processing power is constrained to make them more energy-efficient. In this application, the sensor nodes transfer the collected data to a remote node with more powerful processing capabilities and greater storage in specified time intervals or condition-based ev
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advantages such as improving food
utilizing soil nutrients, etc. The avail
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nutrients in the soil, various nano-se
cultivation or irrigation depends on t
collect the soil constituents that are
results utilizing a deep learning dete
productivity

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