Patent Search

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Abstract:

An integrated agricultural management system leverages the Internet of Things (IoT) to optimize farming processes. The system combines a network of sensors that monitor diverse farming parameters, a central data processing hub that analyses the incoming data, and actuators that carry out specific farming interventions based on analyzed insights. This system enhances agricultural productivity, ensures efficient resource utilization, and fosters sustainable farming practices. Accompanied Drawing [FIGS. 1-2]

Complete Specification

Description:[001] The present invention relates generally to the domain of smart agriculture utilizing Internet of Things (IoT) technology. More specifically, this invention pertains to an IoT-Enabled Smart Agricultural Management System designed to monitor, control, and optimize various agricultural processes to enhance productivity, resource efficiency, and sustainability in farming operations.

BACKGROUND OF THE INVENTION

[002] The following description provides the information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[003] Further, the approaches described in this section are approaches that could be pursued, but not necessarily approaches that have been previously conceived or pursued. Therefore, unless otherwise indicated, it should not be assumed that any of the approaches described in this section qualify as prior art merely by virtue of their inclusion in this section.

[004] In recent years, agriculture has undergone significant transformative shifts, moving away from traditional practices towards more technologically advanced methodologies. This transformation is driven by the increasing global population, dwindling arable land, and the growing impacts of climate change, which together create a pressing need for innovative solutions that can enhance the efficiency, sustainability, and environmental responsibility of farming processes. Amidst this landscape, the significance of data-driven insights has emerged as a beacon of promise, paving the way for the integration of digital technologies into agriculture.

[005] One such groundbreaking technological advancement is the Internet of Things (IoT), which refers to the network of interconnected devices capable of collecting, transmitting, and receiving data. When tailored to the specific needs and challenges of agriculture, IoT offers a new frontier for improving crop yield, resource utilization

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