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Patent Search

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Abstract:

Integrating IOT, AI, cloud computing and wireless sensor networks in drone technology to improvise Autonomous agriculture is the proposed invention. The proposed invention focuses on understanding how drone technology along with AI and latest technologies can help to achieve efficient autonomous agriculture. The invention focuses on analyzing the parameters of Wireless Sensor Networks in Drone Technology using algorithms of IOT and AI approach.

Complete Specification

Description:[0001] Background description includes 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.

[0002] The Internet of Things (IoT) is a network of physical objects that are connected to the internet and can exchange data with other devices and systems. IoT devices also known as "smart objects", are embedded with sensors, software, and network connectivity. Artificial intelligence (AI), in its broadest sense, is intelligence exhibited by machines, particularly computer systems. Cloud computing is the on-demand delivery of computing services over the internet, or "the cloud," to users.

[0003] A number of different types of autonomous agriculture analysis systems that are known in the prior art. For example, the following patents are provided for the supportive teachings and are all incorporated by reference.

[0004] US10728336B2: An end to end integrated technology solution available to increase overall crop yield and a communication platform to connect growers with the marketplace and an infrastructure for agriculture management, logistics, storage, distribution and delivery. Offering a global solution to this problem that provides a consolidated and integrated IoT (Internet of Things) system where data collection, monitoring, control and communication platform are managed using a single platform. An agricultural IoT monitoring device based on wireless mesh network sensing, where this device can monitor the temperature, humidity, vibration and other parameters at an agricultural cultivation base. The device is designed with a microcontroller, a sensing unit, WiFi module, LoRa communication network where it uses WiFi Mesh Network or LoRaWAN to capture real-time data for remote viewing and analyzing intelligence data for preventive actions. This single IoT system platform is providing solution for agriculture and various applications.

[0005] Wireless sensor networks (WSNs) refer to networks of spatially dispersed and dedicated sensors that monitor and record the physical conditions of the

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