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Patent Search

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Abstract:

IoT and Machine Learning -based Monitoring Systems for Weather, Soil, Earthquakes, and Air Pollution ABSTRACT: The proliferation of the Internet of Things (IoT) has the process of change in various industries, such as environmental monitoring and agricultural. According to projections, it is anticipated that the global population we billion by the year 2050. This suggests that there will be an increased need for food and natural resources to meet the needs of the growing population. As per the Ur Nations, there is a pressing need to augment the world food supply by 70 percent in order to adequately address the escalating demand resulting from population grantenet of Things (IoT) has a multitude of prospects for augmenting agricultural practices, mitigating wastage, and monitoring worldwide patterns. The utilization of parming and environmental monitoring, exemplified by the Internet of Things, has the potential to address the increasing need for food and resources while concurre mitigating their ecological consequences. The Internet of Things (IoT) possesses the capacity to fundamentally transform the agricultural sector and enable comprehe worldwide surveillance. Precision agriculture, animal care, and environmental concern are associated with a multitude of advantages. This observation indicates that of Things holds promising prospects in these domains. By persisting in the advancement and utilization of these technologies, there is a possibility of foreseeing a fut characterized by enhanced sustainability, efficiency, and productivity. We possess a high level of enthusiasm over the matter.

Complete Specification

Description:DESCRIPTIONS

The term "smart agriculture" pertains to the utilization of Internet of Things (IoT) technology in order to enhance crop productivity and quality, minimize expenses associated with inputs, and optimize the utilization of existing resources. The utilization of the Internet of Things (IoT), unmanned aerial vehicles (UAVs), and autono vehicles enables the acquisition of real-time data pertaining to the development of plants and the behavior of animals. Variables like as temperature, moisture level nutrient content in the soil are commonly assessed. The data is subsequently subjected to analysis using machine learning methods in order to determine the crop health and prospective yield. Farmers can utilize this information to create well-informed assessments pertaining to many aspects such as feeding practices, fertiliz methods, and insect management. Precision farming has emerged as a highly significant application of the Internet of Things (IoT), offering substantial benefits to fin several ways. This entails utilizing real-time data to optimize agricultural practices for crop management. Farmers have the potential to optimize their resource all and minimize inefficiencies by modifying the amount of water, fertilizer, and pesticides employed for each individual crop. By employing soil moisture sensors, agric practitioners are able to assess the moisture content of their crops and subsequently adjust their irrigation regimen. This has the potential to enhance crop product and improve crop quality, while significantly mitigating water usage. Farmers have the potential to employ Internet of Things (IoT) technologies to monitor the healt fitness of animals, enabling them to obtain real-time data on factors like as feed consumption, activity levels, and body temperature. This data has the potential to the overall health and welfare of animals while also mitigating the financial burden of veterinary services. By promptly recognizing potential health concerns and performing appropriate interventions in a timely manner, t

View Application Status



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