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Patent Search

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Abstract:

The data gathered from the WSN (Wireless Sensor Network) technology is used in this proposed invention to analyse and demonstrate the potential of AI in the field automating agriculture. Making wiser decisions could be aided by this. The use of WSN comprises gathering, recording, and analyzing data that can be used to track t agriculture and its automated inhabitants. The computerized agriculture process uses sensors that can gauge humidity, wetness, atmospheric pressure, the PH of wa and other factors. Enhancing AI with machine learning algorithms to enable intelligence in automation can benefit farmers by reducing their use of natural resources, water consumption and soil quality. Here, different machine-learning algorithms (Artificial Neural Networks—ANN) are evaluated to choose the best systematic frame process. This invention discovered that the GRNN (Generalised Regression Neural Network) ANN is the most effective.

Description:Field of Invention

The invention is associated with the discipline of smart farming management, and more specifically an Internet of Things-based control system for intelligent farmir administration.

The Objectives of this Invention

The primary goal of the present invention is to leverage the possible applications of artificial intelligence (AI) in the field of analyzing and utilizing intelligence in agric automation utilizing data gathered through WSN (Wireless Sensor Network) technologies. Making more intelligent choices could be aided by this. WSN comprises gathering, recording, and analyzing data that can be used to track the actions associated with agriculture and its automated inhabitants. Agriculture automation use sensors that can gauge humidity, wetness, atmospheric pressure, the PH of water or soil, and other factors. Background of the Invention

According to (CN2020/111488017A), The invention describes an Internet of Things-based intelligent farming control and administration system that includes a Bluet wireless communication module, a data analysis center, a data storage center, an intelligent system for irrigation, a fertilization system, a ventilating and lighting sys livestock observing system, a meteorological observing system, a soil observing system, a video observing system, a satellite reconnaissance system, and further components. Another type of application invented in (CN2021/113377141A), The invention describes an artificial intelligent agricultural automatic control system th used to irrigate crops through an automatic irrigation unit automatically, fertilize crops through an autonomous fertilising unit, identify and autonomously kill insect cause damage to crops through an autonomous insect killing unit, and remove diseases from crops autonomously via an autonomous illness eliminate device. Anot

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