LITERATURE SURVEY OF SMART FARMER - IOT ENABLED SMART FARMING APPLICATION

Team Leader:

MOHAMED THOWFIQ RAJA S

Team Members:

SANGARESWARAN R

MOHAMED ABDUL RAHUMAN P

KAMATCHI

Paper Title: Smart Farmer - IoT Enabled Smart Farming Application

Author(s): M.Sunitha, K. Kishore Kumar Reddy, G.Venkateswara Reddy, B.Paramesh Reddy, A.Bhooma Reddy.

Published on: May 2021

Abstract:

In this Project we are designing based on irrigation control using Raspberry Pi, which is designed to tackle the problems of agricultural sector regarding irrigation system with available water resources. In this project, monitoring agriculture field we have used different sensors like soil moisture sensor, temperature sensor and rain sensor with raspberry pi. These monitoring data can be observed on android App. System is worked on two modes. 1. auto mode 2.manual mode. In android app we can observe values of all sensors for every 5 or 10 seconds with time and date. According to that values user can on-off the water pump using android app, because it is smart system, it takes its own decision for on-off water pump.

Paper Title: Smart Farmer - IoT Enabled Smart Farming Application.

Author(s): V.Dankan Gowda, M.Sandeep Prabhu, M. Ramesh, Jayashree M Kudari and Ansuman Samal.

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Abstract:

It has become easier to access agriculture data in recent years as a result of a decline in digital breaches between agricultural producers and IoT technologies. These future technologies can be used to boost productivity by cultivating food more sustainably while also preserving the environment, thanks to improved water use and input and treatment optimization. The Internet of Things (IoT) enables the production of agricultural process-supporting systems. Referred to as remote monitoring systems, decision support tools, automated irrigation systems, frost protection systems, and fertilization systems, respectively. Farmers and researchers must be provided with a detailed understanding of IoT applications in agriculture as a result of the knowledge described above. This study is about using Internet of Things (IoT) technologies and techniques to enhance agriculture. This article is meant to serve as an introduction to IoT-based applications in agriculture by identifying need for such tools and explaining how they support agriculture.

Paper Title: Smart Farmer - IoT Enabled Smart Farming Application.

Author(s): Rahul Dagar, S. Sam, S. Khatri

Published on: 1 July 2018

Abstract:

IoT is a revolutionary technology that represents the future of communication & computing. These days IoT is used in every field like smart homes, smart traffic control smart cities etc. The area of implementation of IoT is vast and can be implemented in every field. This paper is about the implementation of IoT in Agriculture. IoT helps in better crop management, better resource management, cost efficient agriculture, improved quality and quantity, crop monitoring and field monitoring etc. can be done. The IoT sensors used in proposed model are air temperature sensor, soil pH sensor, soil moisture sensor, humidity sensor, water volume sensor etc. In this paper I surveyed typical agriculture methods used by farmers these days and what are the problems they face, I visited poly houses for further more information about new technologies in farming. The proposed model is a simple architecture of IoT sensors that collect information and send it over the Wi-Fi network to the server, there server can take actions depending on the information

Paper Title: SmartFarmer - IoT Enabled Smart Farming Application

Author(s): Sagar K. Badjate, Harsha Rohira, Neha Suryawanshi, Ashwini Sisodiya, Mayuri Patil.

Published on: 4 April 2021

Abstract:

IOT is a revolutionary technology that represents the future of communication and computing. These days IOT is used in every field like smart homes, smart traffic, control smart cities etc. It is proposed to develop a Smart agriculture System that uses advantages of cutting edge technologies such as Arduino, IOT and wireless sensor network. IOT and smart agriculture using automation. Monitoring environmental conditions is the major factor to improve yield of the efficient crops. The feature of this includes development of a system which can monitor temperature, humidity, moisture and even the movement of animals which may destroy the crops in agricultural field through sensors using Arduino board and in case of any discrepancy send a SMS notification as well as a notification on the application developed for the same to the farmer's smartphone using Wi-Fi/3G/4G.