

# Literature Survey

## IoT Enabled Smart Farming and Irrigation Systems

(M. Rohith; R Sainivedhana; N. Sabiyath Fatima)

The existing system only checks the soil water stress and automates the process of watering. The paper is about IOT based smart farming and irrigation system. The ultimate agenda of this paper is to automate the process of watering to plants. This work helps us to know the values of various parameters such as humidity, moisture and temperature of plants and water them accordingly.

## IoT-based Low Cost Architecture For Smart Farming

(Amine Faid; Mohamed Sadik; Essaid Sabir)

The system is based on the in this paper, we present an IoT-based low-cost architecture for smart farming based implementation of the change point detection algorithm and leach protocol for network clustering. This solution supports near real-time monitoring, data processing, and aid to improve decision-making.

## Internet of Things based Smart Farm Security Systems

(Gajula Siva Sai Preethi; Kommu Kavya)

After harvesting farmers gather the paddy stalks and dry them. At this time, they have to stay on farm to protect the crop from animals or intruders but it will increase workload on farmers. In these situations, they may use a security device to protect their farms. Meanwhile they can complete their other work.

## An Architecture model for Smart Farming

(Anna Triantafyllou; Dimosthenis C. Tsouros)

IoT based monitoring systems to guide the process of designing and implementing Smart farming monitoring systems, in this paper we propose a generic reference architecture model, taking also into consideration a very important non-functional requirement, the energy consumption restriction.

## **IoT Based Monitoring and Control in Smart Farming**

**(Muhammad Saad Amin; Syed Tahir Hussain Rizvi)**

In controlled agricultural areas, it is very difficult for farmers to monitor and control their fields all the time. Therefore, an IoT-based smart model is designed for monitoring and controlling farms where environmental parameters can be accessed remotely at any time anywhere in the world. In this model, different sensors are interfaced with a microcontroller including temperature and humidity sensors, soil moisture sensor, barometric pressure sensor, flame sensor, smoke sensor.