

LITERATURE SURVEY

IOT Based Smart Crop Protection System for Agriculture

Team ID: PNT2022TMID46736

IoT Based Smart Crop Protection System

Krunal Mahajan, Riya Parate

IRJET- 2021

This paper describes overview of various researches on smart crop protection system. We have different types of technology that can help to secure the farm. We have seen Arduino and raspberry pi based Farm protection system. Our main aim to design a system that can help to farmer to protect his farm from, animals with getting harm to them.

Implementation of IIoT Based smart crop protection and irrigation system

Ipseeta nanda, sahithi chadalavada

FEBRUARY 2021

A centralizing method in the area of IIoT (Industrial Internet of Things) contrived for understanding agriculture which is preceding the arrangements low-power devices. This paper yields a monitoring procedure for farm safety against animal attacks and climate change conditions. IIoT advances are frequently used in smart farming to emphasize the standard of agriculture.

Smart Crop Protection System

Mohit Korche, Sarthak Tokse

IJLES-August 2021

Agriculture is the backbone of the economy but because of animal interference in agricultural lands, there will be huge loss of crops. This article provides a comprehensive review of various methods adopted by farmers to protect their crops. The article also discusses use of modern technology in agriculture. Finally, this article reviews smart crop protection system using sensors, microcontroller and gsm module.

Smart Crop Protection System From Animals

Jayesh Redij, Pranav Shitap

IJCRT – 4 April 2022

Animals like wild boars, buffaloes, cows, elephant, monkeys, birds, etc. damages the crop a lot which results in loss of production and so of farmer. It is very difficult for a farmer to keep an eye on the field every time. This system is designed to surveillance the field 24*7 which is not possible for a human being and diverts the animals without harming them. The system uses raspberry pi, PIR sensor to detect animal, camera module to look on animal, GSM module to send alert message to farmer, and a buzzer to divert the animals. This system ensures the safety of farm and decreases the loss of farmers.

Smart Irrigation and Crop Protection From Wild Animals

D. Pavithra, P. Bhargavi

APRIL 4 - 2020

The design proposed is an automatic system which assists the farmer in the irrigation process. It keeps alerting the farmer via an onboard LCD display and messages sent to the mobile of farmers. This project focuses on detecting wild animals along the farm's border and also saving water by switching on and off the motor based on soil moisture content. Here we use IR sensors to detect wild animals, soil moisture sensors to detect moisture content in the farm, some speakers to deliver some scary sounds so animals can be afraid to get into the field, and microcontrollers to collect sensor data.