

IOT Based Smart Crop Protection System for Agriculture

Abstract:

One of the Biggest problem faced by farmers are attack on crops by wild animals like wild boars, buffaloes, cows, elephant, monkeys, birds, etc. damages the crop a lot which results in loss of production. It is very difficult for a farmer to keep an eye on the field every time. Hence our System uses sensor for detection of animals, ultrasonic sensor for detection of birds, soil moisture sensor to find the moisture of soil and automatically control the water pump for auto irrigation system, smoke sensor to detect the fire and a GSM module to send alert message to the farmer. Our System includes temperature, humidity and rain detector for collecting the field data and processed. These sensors are combined with well established web technology in the form of wireless sensor network to remotely control and monitor data from the sensors. Thus our model protect the crop from animal intrusion through modern technology.