LITERATURE SURVEY

1. **TOPIC:** Smart Cropprotection system from living objects and fire using Arduino.

AUTHOR: Dr.M. Chandra ,Mohan Reddy, KeerthiRaju KamakshiKodi.

DESCRIPTION:

This is a Arduino Uno primarily based device the use of microcontroller. This technique makes use of a motion sensor to discover wild animals drawing near the sphere and smoke sensor to discover the hearth. In such a case the sensor alerts the microcontroller to require action. The microcontroller now sounds an alarm to woo the animals away from the sector further as sends SMS to the farmer and makes call, in order that farmer may fathom the difficulty and come to the spot just in case the animals don't recede by the alarm. If there's a smoke, it immediately turns ON the motor. This provide us entire safety of plants from animals and from fireplace for this reason protecting the farmer's loss.

PUBLISHED ON: Sept 2020.

2. **TOPIC:** Review on IoT in Agricultural Crop Protection and Power Generation.

AUTHOR: Anjana , Sowmya , Charan Kumar , Monisha , Sahana.

DESCRIPTION:

Agriculture is that the science and artwork of cultivating plants. Agriculture performs most important position inside the economic development of our us of a and this can be the first occupation from a few years. so as to extend the productivity of the crops and to attenuate the expenses of agricultural practices we adopt smart agriculture techniques using IOT. The sensors are placed at different locations within the farm, by which the parameters is controlled using remote or through internet services and by interfacing the sensors operations are performed with microcontrollers. India is that the second most populated country. Power generation and supply is typically an unlimited problem.

PUBLISHED ON: Nov 2019.

3. **TOPIC:** IOT based smart crop monitoring in farm land.

AUTHOR: G. NaveenBalaji, V. Nandhini, S. Mithra, N. Priya , R. Naveena.

DESCRIPTION:

As new technologies has been introduced and utilized in modern world, there is a need to bring advancement in the sector of agriculture also. Various Researches have been undergone to enhance crop cultivation and are widely used. So as to enhance the crop productivity efficiently, it is necessary to monitor the environmental conditions in and around the field. The parameters that has to be exact monitored to enhance the yield are soil characteristics, weather conditions, moisture, temperature, etc., Internet of Things (IOT) is being utilized in a number of real time applications. The introduction of Internet of thing (IOT) along with the sensor network in framrefurbishes the traditional way of farming. Online crop monitoring the use of IOT helps the farmers to stay related to his subject from somewhere and anytime.

PUBLISHED ON: Nov 2018

4.**TOPIC:** Development of IOT based Smart Security and Monitoring Devices for Agriculture.

AUTHOR: P.Rekha, T.Saranya, P.Preethi, L.Saraswathi, G.Shobana,

DESCRIPTION:

Agriculture area being the backbone of the Indian economy deserves security. Security no longer in phrases of sources solely however additionally agricultural products wishes protection and safety at very preliminary stage, like protection from attacks of rodents or insects, in fields or grain stores. Such challenges should even be taken into consideration. Security systems which are getting used now a days don't seem to be smart enough to produce real time notification after sensing the matter.the mixture of typical methodology with present day technologies as Internet of Things and Wireless Sensor Networks can cause agricultural modernization. Keeping this scenario in our mind we've got designed tested and analyzed an 'Internet of Things' based device which is capable of analyzing the sensed information then transmitting it to the user. This gadget will be controlled and monitored from far off region and it is carried out in agricultural fields, grain shops and bloodless stores for protection purpose.

PUBLISHED ON: March 2017.

5. TOPIC: SMART CROP PROTECTION SYSTEM AGAINST WILD ANIMALS USING IOT

AUTHOR: S.Sivagamasundari, S. Janani .

DESCRIPTION:

Crops are vulnerable to wild animals. Therefore, it is very important to monitor the nearby presence of animals. Then the actuation of various devices should follow to repel the hazardous animals. Traditional methods have been widely applied depending on the kinds of produce and imperiling animals. In this paper, we propose a method to protect farms from wild animals via ubiquitous wired network devices, which is applied to farm along with traditional methods to improve the protection performance. Operational amplifier circuits are utilized mainly for the detection of animal intrusion from the outside of farms. The proposed monitoring scheme is to provide an early warning about possible intrusion and damage by wild animals.

PUBLISHED ON: March 2014.