|  |  |  |  |
| --- | --- | --- | --- |
| S.no | Journal name | source | description |
| 1 | IOT Based Automated Crop Protection System | N S Gogul Dev ;  K S Sreenesh ;  P K Binu | Rural and u within the domain of agriculture, w  Low productivity of crops is one of the main problems faced by the farmers in our country. This can be because of two main reasons. Crops destroyed by wild animals and because of bad weather condition. This paper provides a solution to the destruction of crops by animals. This system will provide a complete technical solution using the Internet of things (IOT) to the farmers to prevent their crops from wild animals and provide information to the farmers to maximize their production. Animals are detected using PIR sensors and cameras where animals are identified using TensorFlow image processing Techniques. Raspberry PI is used as the processing unit of the system and sound buzzers are used to emit the ultrasound frequencies. |
| 2 | Smart Farming enabled by IoT and Spectral Imag            Smart Farming enabled by IoT and Spectral Imag IIOT Based Smart Crop Protection and Irrigation System | Ipseeta Nanda ;  Chadalavada Sahithi;  Medepalli Swath ;  Suman Maloji;  Vinod Kumar Shukla | mart Farming System is an emerging concept which utilizes sensors in the field  enabled through IoT to get live data from the farm. This paper aims at developing such a Smart  Farming system using the highly advanced technology of Texas instruments microcontrollers,  MSP430 and TIVA C Series TM4C1294. Along with IoT the system uses Multispectral Imaging  in conjunction with Wireless Soil Embedded Sensor Networks. The goal of the system is to  provide reliable live data which is obtained from the multiple sensor nodes placed throughout  the farm, that use the sink nodes to transfer the data to the cloud. The farmer can access this data  using the Blynk Mobile app and can thus take further calculated actions towards maintaining the  farm and further monitor the soil/crop health to increase the ultimate yield from his farm.  Smart Farming System is an emerging concept which utilizes sensors in the field  enabled through IoT to get live data from the farm. This paper aims at developing such a Smart  Farming system using the highly advanced technology of Texas instruments microcontrollers,  MSP430 and TIVA C Series TM4C1294. Along with IoT the system uses Multispectral Imaging  in conjunction with Wireless Soil Embedded Sensor Networks. The goal of the system is to  provide reliable live data which is obtained from the multiple sensor nodes placed throughout  the farm, that use the sink nodes to transfer the data to the cloud. The farmer can access this data  using the Blynk Mobile app and can thus take further calculated actions towards maintaining the  farm and further monitor the soil/crop health to increase the ultimate yield from his farm.  Smart Farming System is an emerging concept which utilizes sensors in the field  enabled through IoT to get live data from the farm. This paper aims at developing such a Smart  Farming system using the highly advanced technology of Texas instruments microcontrollers,  MSP430 and TIVA C Series TM4C1294. Along with IoT the system uses Multispectral Imaging  in conjunction with Wireless Soil Embedded Sensor Networks. The goal of the system is to  provide reliable live data which is obtained from the multiple sensor nodes placed throughout  the farm, that use the sink nodes to transfer the data to the cloud. The farmer can access this data  using the Blynk Mobile app and can thus take further calculated actions towards maintaining the  farm and further monitor the soil/crop health to increase the ultimate yield from his farm.  Smart Farming System is an emerging concept which utilizes sensors in the field  enabled through IoT to get live data from the farm. This paper aims at developing such a Smart  Farming system using the highly advanced technology of Texas instruments microcontrollers,  MSP430 and TIVA C Series TM4C1294. Along with IoT the system uses Multispectral Imaging  in conjunction with Wireless Soil Embedded Sensor Networks. The goal of the system is to  provide reliable live data which is obtained from the multiple sensor nodes placed throughout  the farm, that use the sink nodes to transfer the data to the cloud. The farmer can access this data  using the Blynk Mobile app and can thus take further calculated actions towards maintaining the  farm and further monitor the soil/crop health to increase the ultimate yield from his farm. paper is to propose a Novel Smar with Arduino Technology,  This will be an integrative approach in the field of IIOT designed for perceptive Agriculture which are proceeding the arrangements in course of open source and on low powers devices [1]. This project work is to yield monitoring arrangement for farm safety against animal attacks and climate change conditions [4]. Industrial Internet of Things (IIoT) advances is frequently used in smart farming to emphasize the standard of agriculture [12]. This project work contains various sorts of sensors, controllers in addition to positioner on behalf of WSN and ARM Cortex-A board which consumes 700mA or 3W power is the main temperament of the classification. Different sensors like DHT 11 Humidity & Temperature Sensor, PIR Sensor, LDR sensor, HC-SR04 Ultrasonic Sensor and cameras are interfaced with the board. IOT devices stay adept of in case evidence around farming grounds  As soon as the passive infrared sensors (PIR) go High on detecting the motion within a range of 10 meters, the camera will be turned ON which first captures an image and then starts dealing out the image, which will be warehoused onboard as well as in IoT cloud, instantaneously a message will be generated automatically towards the recorded quantity using a SIM900A module to inform about the intrusion with the data of the temperature as well as humidity obtained by dht11 which is a temperature and humidity sensor [27]. If found not to be human after processing the available information the system elevate an buzzer sound, to notify people about the intrusion. Data collected by the sensors will be given to ARM Cortex-A through the systems which can be wired or communication system. The facts in the porter is tested and harmonized with superlative values of data like value of temperature, humidity and soil moisture [30]. If the difference occurred concerning predefined threshold rate formerly announcement sends to the mobile of the farmer or to the website. The result will be generated arranged the data. |
|  |