Domain

Internet of Things

# **LITERATURE SURVEY:**

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IoT-Based Smart Crop Protection System for Agriculture

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IoT-Based Smart Crop Protection System for Agriculture

1. By N S GogulDev,K S Sreenesh,P K Binu -

<https://ieeexplore.ieee.org/document/8993406>

* Provides a complete technical solution using 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 systemand sound buzzers are used to emit the ultrasound frequencies.

1. By Srikanth N,Aishwarya,Kavita H M,Rashmi Reddy K,Soumya D B –

## **https://www.technoarete.org/common\_abstract/pdf/IJERECE/v6/i4/Ext\_90718.pdf**

* Agriculture meets the food requirements of the people and produces several raw materials for industries. But because of animal interference and fire in agricultural lands, there will be a huge loss of crops. The crop will be totally getting destroyed. There will be a large amount of loss of farmers.
* To avoid these financial losses, it is very important to protect agricultural fields or farms from animals and fire. To overcome this problem, in our proposed work we shall design a system to prevent the entry of animals into the farm.
* Our main purpose of project is to develop intruder alert to the farm, to avoid losses due to animals and fire. These intruder alert protect the crop from damaging that indirectly increase yield of the crop. The develop system will not harmful and injurious to animal as well as human beings. Theme of the project is to design an intelligent security system for farm protection by using an Embedded system.

1. By Priyanka Deotale,Prasad lokulwar- <https://ieeexplore.ieee.org/document/9697315>

* Automated perspicacious crop aegis system is proposed utilizing Internet of Things (IOT).
* The system consists of esp8266 (nodeMCU), soil moisture sensor, dihydrogen monoxide sensor, GPRS and GSM module, servo motor, dihydrogen monoxide pump, etc. to obtain the required output.
* As soon as any kineticism is detected the system will engender an alarm to be taken and the lights will glow up implemented at every corner of the farm.
* This will not harm any animal and the crops will stay forfended.

1. By VikasBavane,ArtiRaut,SwapnilSonune - <https://www.researchgate.net/publication/329671392_>

* Protection\_of\_Crops\_from\_Wild\_Animals\_Using\_Intelligent\_Surveillance\_SystemFor surveillance of crops for protection against animals.
* In addition to providing protection this system distinguishes between an intruder and an authorized person using RFID’s, various PIR sensors are deployed in the area to detect any motion and hence turns ON a camera when movement is detected, thereby providing real time monitoring.

1. By M. Jaya Prabha, R. Ramprabha, V. Vasu Brindha, C. Asha Beaula-

<https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.ijeat.org/wpcontent/uploads/papers/v9i4/D8732049420.pdf&ved=2ahUKEwjH8eXhgof6AhUR3TgGHZoXCCk4ChAWegQILRAB&usg=AOvVaw2ZIYS2dmVntRYewn9C01Oi>

* Protects crop from animals using IR sensor which detects

the animal while crossing it, by sensing the movement of the animal and ultrasonic sensor detects the birds entering in the fields.

* This system will continuously check for any animals entering inside the field.