# LITERATURE SURVEY ON

# IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE


- ✓ RAMJI P
- ✓ VENKATESHWARAN T
- ✓ BHAVANVIDHYATHI S
- ✓ RAHUL P K

NANDHA ENGINEERING COLLEGE

# ABSTRACT

Digital agriculture, sometimes known as smart farming or e-agriculture is tools that digitally collect, store, analyze, and share electronic data and information in agriculture. Smart agriculture is a broad term that collects agriculture and food production practices powered by Internet of Things, big data and advanced analytics technology. When we talk about IOT, we generally refer to adding sensing, automation and analytics technology to modern agricultural processes. By using this methods we get more efficient, more quality, less resources consumption than compared to regular agriculture.

| Book/Journal | Author's name | Inference |
|---|---|---|
| ICT for Agriculture and Environment,CITAMA 2019 | Tanya Recalde, Karina Real-Aviles, Cesar Moran, Paola Grijalva, Raquel Gomez chabla | The objective of this paper is to offer an overview of the IoT applications in agriculture through topics such IoT-basedsoftware applications for agriculture available in the market, IoT-based devices used in the agriculture, as wellas the benefits provided by this kind of technologies. |
| Internet of Things (IoT)-Based Wireless Health: Enabling Technologies and Applications | Yousaf Bin Zikria, Tariq Umer, Adnan Abid, Shamyla Riaz, Muhammad Shoaib Farooq | The objective of this paper is the collection of all relevant research on IoT agricultural applications, sensors/devices, communication protocols, andnetwork types. Furthermore, it also discusses the main issues and challenges that are being investigated in the field of agriculture |
| Governance for Climate Smart Agriculture,2018 | Edmond Totin, Alcade C. Segnon, Marc Schut, Hippolyte Affognon, Robert B. Zougmore, Todd Rosenstock ,Philip K. Thornton. | The review explored how institutional perspectives are reflected in the CSA literature.It has largely focused on knowledge infrastructure, market structure, and hard institutional aspects. There has been less attention to understand whether investments in physical infrastructure and actors' interaction, or how historical, political, and social context may influence the uptake of CSA options |

| | | |
|---|---|---|
| Development of IoT based smart security and monitoring devices for agriculture. | Tanmay Baranwal, Pushpendra Kumar Pateriya Nitika. | This paper is oriented to accentuate the methods to solve such problems like identification of rodents, threats to crops and delivering real time notification based on information analysis and processing without human intervention. In this device, mentioned sensors and electronic devices are integrated using Python Scripts. |
| Role of IoT in Agriculture for the Implementation of Smart Farming. | Muhammad Shoaib Farooq, Shamyla Riaz, Muhammad Azhar Naeem, Kamran Abid, Adnan Abid. | The article presents many aspects of technologies involved in the domain of IoT in agriculture. It explains the major components of IoT based smart farming. A rigorous discussion on network technologies used in IoT based agriculture has been presented, that involves network architecture and layers, network topologies used, and protocols. Furthermore, the connectionof IoT based agriculture systems with relevant technologies including cloud computing, big data storage and analytics has also been presented. In addition, security issues in IoT agriculture have been highlighted. |