IOT Based Smart Crop Protection System for Agriculture

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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	explanation
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-based software applications for agriculture available in the market, IoT-based devices used in the agriculture, as well as 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, and network 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	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

	Rosenstock , Philip K. Thornton.	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 connection of 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.