Smart Farmar-IOT Enabled Smart Farming Application

S.No	Tittle	Authors	Objectives	Advantages
1	**IOT Based Smart Agriculture System** **Published in:** 2018 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET)	G.Sushanth, S. Sujatha	The main objective focus on area which includes smart farming automation in IoT. The important task in this paper is to observe environmental factors to improve productivity. **Parameters monitor:** temperature, humidity, moisture and even the movement of animals **Hardware Board:** Arduino **Protocol Used:** smartphone using Wi-Fi/3G/4G. **Application**: the system has the potential to be useful in water limited geographically isolated areas.	**Proposed work advantage:** cutting edge technologies such as Arduino, IOT and Wireless Sensor Network energy autonomy and low cost
2	**IOT Based Monitoring System in Smart Agriculture** Published in:	S.R.Prathibha; Anupama Hongal; M. P. Jyothi	The paper aims making use of evolving technology using IoT and smart agriculture using automation. **Parameters monitor:** temperature, humidity	**Proposed work advantage:** Smart farming is an emerging concept, because IoT sensors capable of providing

	2017 International Conference on Recent Advances in Electronics and Communication Technology (ICRAECT)		**Hardware Chip:** CC3200 single chip. Camera **Software to acknowledge to farmers:**MMS to farmers mobile using Wi-Fi.	information about their agriculture fields.
3	**Iot based smart Agriculture monitoring system** **Published in:** July 2020	Yash Sharma, visudeep tyagi, Priyanka datta	In this paper IOT is the main objective to ensure the information is sent to the right people at the right time. To save power resources and time it is often used in rightway in the right manner..	**Proposed work advantage:** This technique is used to sense all the environmental parameters at the right time. This asset allows the farmer to boost the cultivation during the plant's need.
4	**Monitoring and Control Systems in Agriculture Using Intelligent Sensor Techniques** **Published in:**19 Dec 2018	Marco Grossi	In the system, the plant grows around the year adjusting and controlling the surrounding environment. **Parameters monitor:** temperature, CO2 (carbon dioxide), humidity, light intensity, intelligence sensor by artificially	**Proposed work advantage:** provide many benefits to the grower such as full control of nutrient concentration and supply and prevention of many soil-borne diseases and infections to plant, thus resulting in increased plant yield with significant returns, high quality, and more efficient use of available natural resources

5	**IoT based Smart Farming System** **Published Paper ID:** JETIR1704008 **Published in:** April-2017	Akshay Atole Amar Biradar Apurva Asmar Nikhil Kothawade	IoT plays a vital role in smart farming applications. To ensure a power saving method it is often used in rightway.	**Proposed work advantage:** 1.Improved data collection driving farming efficiency. The agricultural sector is in a race today. 2.Resource optimization. End-to-end production control. 3.Reduced wastage and cost management 4.Cleaner process reduces the carbon footprint. 5.Process automation.
6	**Smart agriculture using iot**	Dinesh varma kanumuri	One of the major purpose of the irrigation system is to provide and maintain the ideal environment in terms of temperature and soil moisture for the optimum growth of groups **Hardware requirements:** The arduino uno is a microcontroller card that supports the ATmega328. All sensors are integrated into the arduino uno. It send message with the help of GSM	**Proposed work advantage:** It is time saving, monitoring and providing the conditions. Right amount of water is supplied to plants through the irrigation system as excessive watering may damage the plant growth.

7	**Smart IoT Based Farming** **Received:** 12 April 2020 **Accepted:** 15 May 2020 **Published:** 1 July 2020 Published by International Association of Educators and Researchers (AER), DOI: 10.33166/AETIC 2020.03.003	Hira Farooq, Hafeez UR Rehman, Anam Javed, Mehnaz Shoukat and Sandra Dudely	These challenges need to be addressed by adopting innovative options to improve the soil capacity and the safety of environmental resources. **Parameters monitor:** moisture, temperature, weather, crops diseases and water management	It is reducing spoilage of resources such as water, fertilizers, and operating cost. The availability and development of cost effective smart miniaturized sensors, processors and communication technologies has made lot based smart farming feasible.