**B6-6M2E :SMARTFARMER – IoT ENABLE SMART FARMING APPLICATION**

**LITERATURE SURVEY**

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| **S. No.** | **TITLE OF THE PAPER** | **AUTHORS** | **JOURNAL / CONFERENCE NAME** | **DESCRIPTION** |
| 1 | IoT Enabled Smart Farming and Irrigation System | M. Rohith, R Sainivedhana, Dr. N. Sabiyath Fatima | IEEE 2021 | In this paper, authors have demonstrated a IoT enabled smart farming and irrigation system to automate the process of watering to plants. This system helps to measure the values of various parameters such as humidity, moisture and temperature of plants and water them accordingly |
| 2 | A Systematic Review of IoT Solutions for Smart Farming | Emerson Navarro, Nuno Costa, and António Pereira | MDPI 2020 | In this work, it was observed that the use of artificial intelligence and image processing techniques has become more common to improve the management of smart farming. |
| 3 | A Multi-collective, IoT-enabled, Adaptive Smart Farming Architecture | G. Kakamoukas, P. Sariciannidis, G. Livanos, M. Zervakis, D. Ramnalis, V. Polychrnos, T. Karamitsou, A. Folinas, N. Tsitsiokas | IEEE 2019 | This proposed architecture encloses wireless sensor networks, meteorological stations and unmanned aerial vehicles along with an information processing system that leverages machine learning and computing technologies. |
| 4 | Internet of Things and LoRaWAN – Enabled Future Smart Farming | Bruno Citoni, Francesco Fioranelli, Muhammad A. Imran, Qammer H. Abbasi | IEEE 2019 | In this paper authors have explained about LoRaWAN which is been under the spotlight in recent years due to its suitability to be the standard communication protocol for IoT deployments |
| 5 | A Survey on the Role of IoT in Agriculture for the Implementation of Smart Farming | Muhammad Shoaib Farooq, Shamyla Riaz, Adnan Abid, Kamran Abid, Muhammad Azhar Naeem | IEEE 2019 | In this paper, They explained about the major components and technologies, network architecture, network layers, network topologies and protocols involved in developing IoT based smart farming system |
| 6 | A Revisit of Internet of Things Technologies for Monitoring and Control Strategies in Smart Agriculture | Amjad Rehman, Tanzila Saba, Muhammad Kashif, Suliman Mohamed Fati, Saeed Ali Bahaj, Huma Chaudhry | MDPI 2021 | The goal of this research is to evaluate smart agriculture using IoT approaches in depth. The paper demonstrates IoT applications, benefits, current obstacles, and potential solutions in smart agriculture. |
| 7 | Traffic-Aware Secured Cooperative Framework for IoT-Based Smart Monitoring in Precision Agriculture | Ibrahim Abunadi, Amjad Rehman, Khalid Haseeb, Lorena Parra, Jamie Lloret | MDPI 2022 | This study proposes a framework for a system that combines fog computing with smart farming and effectively controls network traffic. Firstly, the proposed framework efficiently monitors redundant information and avoids the inefficient use of communication bandwidth. |