Abstract

Primary occupation of our country is agriculture. Automation of farming activities is smart farming. Traditional way reduces the productivity as well as there is wastage of water. To overcome this problem smart irrigation system using IOT is developed. This project includes various sensors like Soil Moisture, PT100, BH1750, Float sensor to sense the physical parameter. Arduino is used to control all the sensors. The data is handled remotely using Android app and website. Evapotranspiration algorithm is used to calculate accurate requirement of water. KNN algorithm is used to predict the crops for particular geographical zone. This product would increase the productivity of farm as proper amount of water only would be supplied to the plants.

References

1. AnkitYadhav ,PranavPandhare ,SaleelKulkarni,Shubham, Kale,SoniyaZope, "Design and implementation of Smart Agriculture using Embedded System", Volume 5 Issue 12 Dec.2016,
International Journal Of Engineering And Computer Science ISSN: 2319-7242.


Index Terms

Computer Science Information Systems

Keywords

IOT, Sensors(soil moisture, float, PT100, BH1750), Ardiuno, Android, Website, KNN, Evapotranspiration