Abstract

Irrigation in India to maximum extent is dependent on the monsoons, which are not a reliable source of water. Depending on the soil type, plants are to be provided with water, which is called as intelligent irrigation system. Nowadays water scarcity is a big concern for farming. Irrigation status is updated to the server or local host using Personal Computer. Arduino platform is used here for getting information via serial communication from microcontroller and to update in the server. In addition for better cropping system, fertilizers required for the crops, best crops to cultivate for the particular climatic and soil conditions are updated to server at regular basis by monitoring soil PH level, Temperature level of the field area etc., By using PC host, crop is continuously monitored.

References

1. HarithaTummala , SwathiNallapati ,Asst.professor in DhanekulaINTELLIGENT
2. INTELLIGENT IRRIGATION SYSTEM N. Dinesh kumar1 , S. Pramod2 &chsravani3
Associate Professor & HOD – EIE, Vignan Institute of Technology & Science, Deshmukhi, Andhra Pradesh, India, UG Students, Department of EIE, Vignan Institute of Technology & Science, Deshmukhi, Andhra Pradesh, India Application Developer, IBM India Pvt. Ltd., Bangalore, Karnataka, India International Journal of Agricultural Science and Research (IJASR) ISSN 2250-0057 Vol. 3 Issue 3, Aug 2013, 23-30 © TJPRC Pvt. Ltd.

3. REVIEW PAPER BASED ON AUTOMATIC IRRIGATION SYSTEM BASED ON RF MODULE Ms. DeweshvreeRane PG Scholar - VLSI, Sevagram, Wardha, India Prof. P. R. Indurkar Professor, BDCE, Sevagram, Sevagram, Wardha, India Prof. D. M. Khatri Assistant Professor, BDCE, Sevagram, Sevagram, Wardha, India IJAICT Volume 1, Issue 9, January 2015 Doi:01.0401/ijaict.2015.09.01 Published on 05 (02) 2015.

4. INTELLIGENT DRIP IRRIGATION SYSTEM TupeAlok R. GaikwadApurva A. KambleSonali U. Department of Information Technology Department of Information Technology Department of Information Technology JSPM’s JSCOE, Pune, India JSPM’s JSCOE, Pune, India JSPM’s JSCOE, Pune, India International Journal of Innovative Research in Advanced Engineering (IJIRAE) ISSN: 2349-2163 Issue 2, Volume 2 (February 2015) www.ijirae.com

Index Terms

Computer Science
Artificial Intelligence

Keywords

Arduino Uno board, Liquid crystal display, Soil moisture sensor, Relay, Solenoid valve, PCB board, 5V power supply, 12V power supply, GSM module