Survey on Technology Tools for Water and Garbage Management for Smart City Planning

Abstract

Our nation is trying to make cities smart, change the quality of life, and modify the city assets. Government is mainly focused on people satisfaction about such development. I. e. These all development must meet to residency requirements. Internet of thing is one paradigm which helps in making our nation smart. Smart city is one of the concepts of Internet of Things (IOT). The proposed system consists of two models of smart city, water distribution supply and garbage collection management. The proposed System is to develop the first module water distribution supply using sensors and valve and The proposed system keep records of flow rate by using which the system will change the state of water flow on or off automatically. The proposed system is to implement garbage collection management using Microcontroller,
Sensors and GSM module. Sensors will check whether the dustbins are fully filled and microcontroller send indication message to garbage collector using GSM module.

References

- Automated urban drinking water supply control and water theft identification system Gouthaman, J., Bharathwajanprabhu, R. & Srikanth. A M. Kumarasamy College of Engineering, Karur, Tamilnadu, India Email ID: jgouthaman@ieee.org, nateshborahath@ieee.org, srikanth880@gmail.com
- Smart Water Grids for Smart Cities: a Sustainable Prototype Demonstrator, Leonardo Gabriella, Mirco Pizzichini, Susanna Spinsante, Stefano Squartini Dipartimento DI Ingegneria dell'Informazione Universita' Politecnica delle Marche Ancona, Italy 60131
- SENSOR NETWORKS FOR MONITORING AND CONTROL OF WATER DISTRIBUTION SYSTEMS, A. J. Whittle, M. Allen, A. Preis3 and M. Iqbal, Department of Civil and Environmental Engineering, Massachusetts Institute of Technology, Cambridge, MA, USA. International Conference, Hong Kong 9--?11 December 2013
- AUTOMATED WATER DISTRIBUTION SYSTEM USING PLC AND SCADA T. Baranidharan, A. Chinnadurai, R. M. Gowri, J. Karthikeyan. K. S. Rangasamy College of Technology, Tiruchengode, (India), International Journal of Electrical and Electronics Engineers ISSN- 2321-2055 (E), IJEEE, Volume 07, Issue 01, Jan- June 2015
- Design and Implementation of a Network Management System for Water Distribution Networks V. C. Raghavendran, Timothy A. Gonsalves, Usha Rani, S. Mohan Kumar, Shankar Narasimhanz Department Of Computer Science and Engineering, Department Of Chemical Engineering, Indian Institute of Technology Madras, Chennai, India yNMSWorks Software Ltd., Chennai, India vcraghu,tagg@lantana.tenet. res.in,usa@nmsworks.co.in, fsmkumar,narasg@iitm.ac.in
- Mr. Prashant palkar1, Prof. (Dr.) Shrinivas Patil, Prof. Mrs. Pooja Belagali, Mr. Ashish Chougule (Electronics Engineering dept. Dr. J. J. Magadum college of Engg. Jaysingpur, India) (Electronics and Tele. Engg. Dept. DKTE &apos;S TEI, Ichalkara2, India), &quot;Automation in drinking water supply distributed system and testing of water&quot;.
- Md. Abdulla Al Mamun, M. A. Hannan, Md. Shafiqul Islam, Aini Hussain and Hassan

- Huimin Wang is with the State Key Laboratory of Hydrology – Water Resources and Hydraulic Engineering, Hohai University, 210098, P. R. China and Jiulong Zhu is with the Shandong Business & Technology Institute and Junfei Chen is with the business school, Hohai University, 210098, P. R. China, "Study on Inventory in Supply Chain of South-to-North Water Transfer under Asymmetric Information", IEEE2006.

- Hassan Basri Dept. Of Civil and Structural Engineering, Faculty of Engineering & Built Environment Universiti Kebangsaan Malaysia, Bangi, Selangor DE, Malaysia, "Integrated Sensing and Communication Technologies for Automated Solid Waste Bin Monitoring System" Email: drhb@ukm.my, Md. Abdulla Al Mamun, M. A. Hannan, Md. Shafiquel Islam, Aini Hussain Dept. Of Electrical, Electronic and Systems Engineering, Faculty of Engineering & Built Environment Universiti Kebangsaan Malaysia, Bangi, Selangor DE, Malaysia Email: md.abdulla@siswa.ukm.edu.my, hannan@eng.ukm.my, shafique@vlsi.eng.ukm.my, aini@eng.ukm.my


Index Terms

Computer Science

Information Sciences

Keywords

Transistors  Resisters  Led  Jumper Wires  Microcontroller  Bread Board  Disk
Capacitor
Gsm
Ir Sensor
Usb Cable
Servo Motor.