Abstract
Estimation of water measurement is of high importance in hydrographic survey activity especially in reservoirs. Because in rainy season there is collection of slurry and mud at the bottom of dam. Because of this the depth of dam may get reduced and hence its capacity is reduced. There are number of techniques to measure the depth and each having its advantages and drawbacks. Here in this paper the way of measurement of the depth by using dual beam echosounder is introduced as it has higher acquisition rate and the coordinates of position of actual slurry or mud is given by GPS. The data which is collected is wirelessly transmitted using the zigbee.

References

- Reservoir Survey and Data Analysis; U. S. Department of the interior, Bureau of Reclamation, Nov 5, 2012
- Sharma Etemadi Borujeni, Ultrasonic Underwater Depth Measurement; 2nd IEEE International Symposium on Underwater Technology, April 2002, Japan
- Mobile Adhoc Networks are the networks whose topology changes randomly with time.
- Doug Lockhart, Peter Canter, Corey Collins, Case study on Hydrographic Survey Processing with Ellipsoidal Altitude; 2007 MTS
- Erina Ferro and Francesco Potorti, Bluetooth and Wi-Fi Wireless Protocols: a survey and a comparison; IEEE Wireless Communication, February 2005
- Neil W. Bergmann and Jarrod Trevathan, Wireless Underwater Power and Data Transfer; Eight IEEE Workshop on Practical Issues in Building Sensor Network Applications 2013
- Xiaobo Yu, Pirabakaran Navratnam and Klaus Moessner, Resource Reservation Schemes for IEEE 802.11- Based Wireless Networks: A Survey; IEEE Communication survey and Tutorial, Third Quarter 2013
- Nickolas J. LaSorte, Sameer A. Rajab and Hazem H. refai, Experimental Assessment of Wireless Coexistence for 802.15.4 in the Presence of 802.11g/n; IEEE 2012
- Pankaj Varma and J. S. Bhatila, design and Development of GPS-GSM Based Tracking System with Google Map Based Monitoring; IJCSEA Vol 3, No3, June 2013
Dr. K. R. R. Mohanrao and T. Nandini, "Zigbee Based Location System for Forest Search and Rescue missions", IJETT-Vol 11, No4-May 2014

Index Terms

Computer Science
Communication

Keywords
Echo Sounding  Zigbee