Comparative Study and Performance Evolution of Wireless Data Transmission Techniques for an Integrated Bathymetry Survey for Reservoirs

IJCA Proceedings on National Conference on Emerging Trends in Advanced Communication Technologies

© 2015 by IJCA Journal

NCETACT 2015 - Number 1

Year of Publication: 2015

Authors:
M. Selva Balan
Sandeep Musale
Rutuja Saptarshi
Pooja Sawant
Snehal Somwanshi
Prachi Zadge

{bibtex}ncetact2003.bib{/bibtex}
Abstract

Integrated bathymetry survey is only available technique to ascertain the capacity and the life of the reservoir. As the existing data collection process faces challenges regarding data logging in terms of equipment and its security a wireless data logging technology have been studied and its advantage over the existing system is proposed in this paper. This paper presents a description of the existing wireless technologies and tries to compare them with respect to which technology provides a better solution to build a wireless access infrastructure for the above said case study. One of the popular case study describing wireless communication standards and line coding techniques evaluating their main features and behaviours in terms of various metrics including the transmission time, complexity, and power consumption have been described. It is believed that the comparison presented in this paper would benefit the engineers in selecting an appropriate protocol for the Bathymetry survey application.

References

- D. Ahamed, "The role of ZigBee technology in future data communication system," Journal of Theoretical and Applied Information Technology.
electronics. dit. ie/
- M. A. E. T. Anis Koubâa, IEEE 802. 15. 4: a wireless communication technology for large-scale ubiquitous computing applications, IEEE.

Index Terms

Computer Science
Communication

Keywords
Wireless Data Transmission
Zigbee
Line Coding Techniques