Abstract

Operation and maintenance of installed wireless networks face various difficulties due to rapidly shifting trends in technology. The planning of existing wireless networks makes it difficult to combine different elements, made by different technological companies and different network operators. In this paper, we survey different integrated wireless networking structure, system architectures and its applications. Integrated wireless networks use combination of different types of following networks e.g. MANET with mobile cellular network, MANET with satellite network, and GSM with software-defined radio (DSR) that have been proposed for low cost of network deployments and provides the voice communication, short message service and low rate data service for remote areas where infrastructure networks are difficult to exist. They also improve their routing reliability and maintain security issues.
References


Index Terms

Computer Science Wireless

Keywords

Integrated Wireless networks; MANET; Multi-hop network; cellular network