Abstract

Wireless sensor network (WSN) has come out as one of the most auspicious technologies for the future. The WSN is most important application has environmental monitoring and target tracking. WSN has been enabled by advancement in technology and availability of inexpensive, small, and smart sensors lead to cost effective and easily portable WSNs. However, researchers must address numerous challenges to facilitate the worldwide deployment of WSN technology in real-world fields. This paper delineates the concept of sensor networks that has been made feasible by the convergence of micro electro-mechanical systems technology, digital electronics and wireless communication. First, the architecture of sensor node is described, and a review of factors influencing the design of sensor node is provided. Then, the framework of wireless sensor network is outlined. The advancement of wireless sensor network was originally discovered for military applications like battlefield surveillance. Now a day’s wireless sensor networks are used in various civilian application areas, including environment and healthcare applications, habitat monitoring, home automation and traffic control.


20. Watson, Omg (object management group) architecture and corba (common object request broker architecture) specification, IEE Colloq. FDigest, (007) (1994) 4/1.

Index Terms

Computer Science

Wireless

Keywords

WSN, Sensor