Abstract

A realistic power consumption model of wireless communication subsystems typically used in many sensor network node devices is presented. The sensor network facilitates monitoring and controlling of physical environments. These wireless networks consist of dense collection of sensors capable of collection and dissemination of data. They have application in a variety of fields such as military purposes, environment monitoring etc. Typical deployment of sensor network assumes the central processing station or a gateway to which all other nodes for routing data from source to sink using sensor protocol for information via negotiation protocol. Continually sending the data from the natural environment which is necessary needed causes congestion at central station and thus reduces the efficiency of the network results low power life. In this work we will propose a better Sensor Protocol For Information Via Negotiation routing technique using network coding to reduce the total number of transmission and reception in sensor networks resulting in better efficiency as well as power consumption. This power consumption model can be used to guide design choices at many different layers of the design space including, topology design, node placement, energy efficient routing schemes, power management and the hardware design of future wireless sensor network devices.

Refer
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Index Terms
Effective Power Consumption Model for the Network Coded Smart Sensor Network

Keywords

Sensor Protocol For Information Via Negotiation  Network Coding  Wireless Sensor Network