Abstract

A wireless sensor network (WSN) is usually composed of a large collection of small autonomous sensor devices that can sense environmental conditions about the ambient environment. The main task of wireless sensor nodes is to communicate together by many wireless strategies. In this communication strategies need fast data access in wireless sensor networks (WSN), as resource constrained is a main issue in wireless sensor networks applications. For this solution, administered routing protocols. Routing protocols are in charge of discovering and maintaining the route in the network. Routing protocols with low energy consumption play a very important role in prolonging the lifetime of sensor network. Cluster-based routing protocols have proven to be effective in network topology management, energy minimization, and data aggregation and so on. In this paper, we present various cluster-based routing protocols and merits and limitations of protocols.

References


**Index Terms**

Computer Science    Wireless

**Keywords**

Wireless sensor network, cluster-based routing, data aggregation, energy minimization.