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 a wireless sensor node is to communicate together by many wireless strategies. In this communication strategy, 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 are in charge of discovering and maintaining the route in the network. Routing protocol with low energy consumption play a very important role in prolonging the lifetime of sensor networks. 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.