Abstract

A wireless sensor network (WSN) is usually composed of a large collection of small autonomous sensor device that can sense environmental condition about the ambient environment. The main task of wireless sensor node is a communicate together by many wireless strategies. In this communication strategies need fast data access in wireless sensor network (WSN), as resource constrained is a main issue in wireless sensor networks applications. For this solution administered routing protocol. Routing protocol 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 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.


**Index Terms**

Computer Science Wireless

**Keywords**

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