Abstract

Wireless Sensor Networks (WSNs) are consisting of many small and low-cost sensor devices which are densely deployed in a physical area. The nodes are capable of sensing physical phenomenon, computation on that and reporting to the central base station. In WSNs, the sensor nodes have limited transmission range so the data will be transmitted in a multi-hop fashion. Also sensor nodes are limited in energy resources, processing and storage capacity.
Routing protocols in WSNs are responsible in maintaining routes in the network and have to ensure reliable multi-hop communication under this condition. In this paper we have present an overview of some multipath-based routing protocols and compare them based on various factor like, energy efficiency, low delay, high data accuracy and fault tolerance. Finally, we conclude the paper by defining some future directions.

References


Index Terms

Computer Science

Communication and Networks
Keywords
Energy efficiency  fault-tolerance  low delay  multipath based routing  wireless sensor networks