Abstract

The wireless sensor networks (WSNs) is one of the highly adopted field of research in recent years of scientific world. A WSN consists of sensors also known as motes which are distributed over a geographical area to monitor physical or environmental conditions and to transfer their sensed data cooperatively through multi-hops to the Base Station (BS). The critical fact about sensor nodes is their limited energy. Sensor nodes die due to run out of energy quickly because of the small size of the sensor nodes. Many energy efficient routing protocols and techniques have been developed to solve this problem and to increase the lifetime of the network. For energy conservation in wireless sensor network an Event Driven Hierarchical Cluster based Routing Protocol is proposed. Whenever there is an occurrence of event in the area of interest, then the information gathered from this event is passed to the sink through different cluster head which has high energy and smallest distance to the sink. Simulation results show that routing of event data through different clusters improve the lifetime of the network compared to other clustering scheme and shows significant performance increase.

References
An Efficient Approach for Event based Clustering for Wireless Sensor Network

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Index Terms

Computer Science Wireless

Keywords
Wireless sensor networks; sensors routing hierarchical event cluster; data aggregation.