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Optimization Routing and Employment for Wireless Sensor Network

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Abstract : The applications of Wireless Sensor Networks (WSNs) have grown enormously. In this paper, the proposed mechanism used to enlarge the lifespan of network and provide more efficient functioning procedures that is clustering. Clustering is a process to subdivide the sensing field of sensor network into number of clusters. Each cluster selects a leader called cluster head. A cluster head may be elected by either the sensor node pre-assigned by the network designer, or forming cluster based on the priority of the data to be transmitted to the sink node. The throughput, Packet delivery ratio, interference, energy and time are the considered factors in finding efficient path of data communication among the sensor nodes within the cluster. Through simulations the proposed routing protocol shows energy efficiency and improved packet delivery ratio better connectivity rate. Through the presented approach is shown to reduce end-to-end delay up to 15 times for Wireless networks while improving Packet Delivery Ratio (PDR) and Energy Consumption in comparison with hierarchical protocol.

Keywords : Routing, Networks, MANET

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