

Energy Efficiency Through Clustering Techniques in Wireless Sensor Network

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ABSTRACT

In the recent years there has been growing interest in wireless sensor networks. Network's life time is the most critical parameter which depends on energy efficiency and load balancing. The main aim of clustering is to provide scalability and reduce energy consumption. Selection of cluster heads from among the various nodes is important because the cluster head consumes more energy as compared to non-clusterhead nodes. Proper selection of cluster head increases the network life time and energy efficiency. Rotation of cluster head in the LEACH scheme tries to distribute the energy consumption over all nodes in the network. The paper presents the objective, advantages and design challenges of wireless sensor network along with a set of appropriate taxonomy parameters.

Keywords: Wireless Sensor Network, Cluster head selection.