

ENERGY EFFICIENT CLUSTER HEAD SELECTION CRITERION IN WIRELESS SENSOR NETWORK

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ABSTRACT

Wireless sensor network is a network of nodes, which transmit data hop by hop to the Base Station .The process of transferring data in the network consumes energy, as the result the nodes energy gets depleted. Minimizing energy dissipation and maximizing network lifetime are among the central concern when designing applications and protocols for sensor network. One of the energy efficient technique is clustering .In this paper, we try to formulate and prove that for improving efficiency in a cluster based network further, a real time situations like losses could be considered. Thus, by considering this, cluster head selection could be done more efficiently which can ultimately leads to increase in network lifetime.

KEYWORDS: Cluster Head, Distance, Energy, Network Lifetime