

RESIDUAL ENERGY BASED CLUSTERING ALGORITHM FOR MOBILE NODES IN SENSOR NETWORKS

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ABSTRACT

Energy efficiency is the most important issue in research of wireless sensor networks while the routing protocol plays an import role in achieving energy efficiency in WSN. In this paper, the LEACH and ECHC are analyzed and an improved cluster-based energy efficient routing algorithm called Residual Energy Based Clustering Algorithm is proposed for a dynamic sensor nodes. An election of a Cluster Head takes an account of their residual energy. By this we can cover more network area in given number of rounds.

KEYWORDS: Wireless Sensor Network, LEACH Protocol, ECHC, Residual Energy, Cluster Head, Network Lifetime, Failure Nodes