Abstract

Wireless Sensor Networks are made up of restricted energy driven resources. When the installation setup of sensor nodes are over usually they are inaccessible to the user. Hence the replacement of battery source is not feasible. In order to boost the life span of the network, the key design issue is to be enhanced which is energy efficiency. With the restricted energy supply, a number of network layer protocol have been anticipated to increase the operative life span of the network. LEACH (Low Energy Adaptive Clustering Hierarchy) is a Hierarchical Clustering Protocol provides solution for such issues. EEACRA (Energy Efficient Adaptive Cluster Routing Algorithm) a variant of LEACH have been proposed to improve the deficiency of LEACH which is based on the energy decision condition. The proposed EECRL (Energy Efficient Clustering Routing for LEACH) shows several improvement for whole network energy consumption and effectively prolong the network life cycle.
Energy Efficient Clustering Routing Protocol based on LEACH for WSN

Index Terms

Computer Science

Networks

Keywords

EEACRA  EECRL  LEACH  Cluster head