Abstract

Mobile Ad-hoc Network is the prominent area of research to make wireless networking more robust and reliable for packet delivery among nodes of a small or big network through wireless channel. The routing protocols are also designed to keep in mind that the energy consumption of wireless nodes should be as minimum as possible. In MANET most of the devices are battery operated and saving energy increases the lifetime of the node to transfer information over network, in such case the routing protocol plays important role to increase the network lifetime. In this paper an efficient routing methodology is proposed which significantly increases the network lifetime. Here the distributed energy efficient clustering (DEEC) routing protocol is used with low probability cluster head selection approach, which enhances the network lifetime better than simple DEEC.

References

- Akyildiz, W. Su, Y. Sankarasubramaniam, E. Cayirci, survey on sensor networks,
- Chand, K. K. , Bharati, P. V. , Ramanjaneyulu, B. S. , Optimized Energy Efficient Routing Protocol for life-time improvement in Wireless Sensor Networks, Advances in Engineering,
Low Probability Cluster Head Selection Energy Efficient Routing in MANET using DEEC


Index Terms
Computer Science
Networks

Keywords
DEEC Routing  Cluster Head(CH)  Energy Efficient Routing  Low Probability Selection and MANET.