Abstract

This paper presents a new approach to energy efficient routing in wireless sensor network.
Here multiple routing paths are created based on the energy status of the nodes and they are used one after the other resulting in utilizing the energy equally from all the nodes in the network. The periodic update messages are minimized by using back up node and having every node broadcast its energy status to its neighbors prior to its death i.e. when energy of a node goes below minimum threshold.

References

- Wen-Hwa Liao, Yucheng Kao, Ru-Ting Wu - Ant colony optimization based sensor deployment protocol for wireless sensor networks
- Zhengmao Ye, Habib Mohamadian - Adaptive Clustering based Dynamic Routing of Wireless Sensor Networks via Generalized Ant Colony
- Chi Lin, Guowei Wu, Feng Xia, Mingchu Li, Lin Yao, Zhongyi Pei - Energy efficient ant colony algorithms for data aggregation in wireless sensor networks
- Abbas Nayebi, Hamid Sarbazi-Azad - Performance modeling of the LEACH protocol for mobile wireless sensor networks
- Salim E. L. Khediri, Nejah Nasri, Anne Wei, Abdennaceur Kachouri - A New Approach for Clustering in Wireless Sensors Networks Based on LEACH
Index Terms

Computer Science Wireless

Keywords

Clustering Backup Node Cluster Member Intra Cluster Routing Inter Cluster Routing Energy Status Table

Base Station