Abstract

A wireless sensor network is a group of sensors heavily distributed in the desired area. There are constraints of energy, distance, mobility etc while dealing in WSN. As we know that randomized algorithms are the best average case providing algorithms so there come the concept of LEACH which is a very well known algorithm in WSN. Wireless sensor networks can be of two kinds: homogeneous sensor network and heterogeneous sensor network. The proposed algorithm provides a better approach for CH election by increasing network lifetime. It uses 3-level decision tree at different levels of heterogeneity and works in reactive way. Energy balancing is handled by taking average energy of the network as a parameter.

References


Index Terms

Computer Science
Wireless

Keywords

Wireless Sensor network, Energy aware, three-level decision tree, heterogeneous, homogeneous, reactive, Clustering, Network lifetime.