Abstract

There is tremendous increase in popularity of WSNs as the sensor network connects the virtual world and physical world together. Sensors nodes can be deployed in hostile environment where there is no access of human beings. Sensor nodes rely on battery power where it becomes a difficult task to replace the battery. So to improve the networks energy is very important task. To overcome this problem, a routing protocol was proposed known as Low-Energy Adaptive Clustering Hierarchy (LEACH). The implementation of the protocol is done using MATLAB 2013. In this thesis we proposed a new modified LEACH algorithm, in which to calculate the threshold value for next round we consider the remaining nodes energy of the network. A comparison between Leach, Leach-SCH and proposed Leach is done on the basis of the network lifetime. From the comparative study, we can conclude that the new proposed algorithm is better than Leach and Leach-SCH in terms of network lifetime.

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Index Terms

Computer Science  Wireless
Keywords

Wireless Sensor Network  Leach  Leach-SCH.