The B4-LEACH Cluster based Hierarchical Protocol for Enhanced Cluster Head Workload in Wireless Sensor Networks

Abstract

In this paper, B4-LEACH, which is a modified version of the LEACH routing protocol, is studied. In B4-LEACH the data load of the cluster head node is decreased by exploiting the existing data flow. The distance over which data is transmitted by the cluster head is reduced. Results obtained from numerical simulations show that compared to the LEACH protocol and its variant, namely the multihop- LEACH protocol, B4-LEACH extends the network lifetime.

References


Index Terms

Computer Science  Wireless

Keywords

Hierarchical routing protocol, LEACH, wireless sensor networks