A Survey on Hierarchical Clustering Algorithm for Wireless Sensor Networks

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Authors:

Nirnaya Pradhan, Kalpana Sharma, Vikash Kumar Singh

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Abstract

The main constraint of Wireless Sensor Networks (WSNs) is irreplaceable power source of the sensor nodes. In recent years, a lot of research has been carried out to investigate different aspects like, cluster formation, load balancing among sensor nodes, network establishment, routing protocol and coverage problem in wireless sensor network to prolong network lifetime. In this paper, we examine hierarchical clustering algorithms mentioned in the literature of Wireless Sensor Networks. We will briefly discuss the operations of these algorithms and also examine the performance in terms of power consumption.

References


Index Terms

Computer Science Wireless

Keywords

Wireless Sensor Networks, Cluster Head, Hierarchical Clustering, single-hop, multi-hop, Base Station.