Abstract

Wireless Sensor Networks (WSNs) present new generation of real time embedded systems with limited computation, energy and memory resources that are being used in wide variety of applications where traditional networking infrastructure is practically infeasible. In recent years many approaches and techniques have been proposed for optimization of energy usage in Wireless Sensor Networks. In order to gather information more efficiently, wireless sensor networks are partitioned into clusters. However, these methods are not without problems. The
most of the proposed clustering algorithms do not consider the location of the base station. This situation causes hot spots problem in multi-hop wireless sensor networks. Unequal clustering mechanisms, which are designed by considering the base station location, to some extent solve this problem. In this paper, we present issues related to these approaches.

Reference

- M. Lotfinezhad and B. Liang. E_ect of partially correlated data on clustering in wireless
Some Issues in Clustering Algorithms for Wireless Sensor Networks


Index Terms

Computer Science Fuzzy Logic

Key words

Fuzzy Logic

Wireless Sensor Networks Aggregation

Fuzzy Clustering

Probabilistic Clustering

Unequal Clustering