Abstract

There are several applications that have been developed with the need for self-organization for network. To fulfill this requirement, the need for wireless sensor networks in such applications is generated. To manage network efficiently, clustering is used. Lots of works have been done in the field of wireless sensor networks (WSNs) in the last few years. These researches have boosted the potential of WSNs in applications such as security monitoring, disaster management, military area, border protection, and health monitoring systems. These applications require nodes to be remotely deployed in huge numbers and operate autonomously. Therefore, scalability becomes a major concern, and nodes are often collected into disjoint clusters. This paper presents a categorization and common organization of available clustering proposals. This work analyzes various clustering algorithms used for WSNs and provides a review with a focus on their objectives, features, etc., and proposes an efficient clustering method for stable cluster formation and maintenance.

References

WSN Performance Issues and Various Clustering Methods


**Index Terms**

Computer Science

Networks

**Keywords**
WSNs Clustering  Cluster head selection  Clustering comparison.