Abstract

There are several applications that have been developed with the need for self-organization for networks. To fulfill this requirement, the need for wireless sensor networks (WSNs) in such applications is evident. To manage the 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 areas, border protection, and health monitoring systems. Such applications are required to be remotely deployed with sensor nodes in huge numbers and to operate autonomously. So there is a need for scalability, 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 gives a review with focusing on their objectives, features, etc. and proposes an efficient clustering method for stable cluster formation and maintenance.

References


**Index Terms**

Computer Science

Networks

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