Abstract

There are several applications that require self-organization for network. To fulfill this requirement, wireless sensor networks (WSNs) are often used. WSNs have been widely deployed in applications such as security monitoring, disaster management, military areas, border protection, and health monitoring systems. Such applications require the deployment of sensor nodes in huge numbers and operate autonomously. Therefore, scalability is essential. 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 focusing 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.