

Title: Cluster head and base station communication technology

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**Abstract:** In this paper, we propose an (SAPSO) Self-Adaptive Particle Swarm Optimization algorithm to solve the base station positioning problem. This algorithm is used to minimize the ...

Clustering is an approach to optimizing energy consumption in wireless sensor networks. It also analyzes and discusses the relevant design factors that may influence the energy efficiency of ...

Clustering in WSNs is the most reliable solution for the challenges, in which nodes are grouped into few clusters, and a cluster head (CH) is selected ...

Each cluster has a cluster head (CH) that is used to gather captured data of sensor nodes and forward it to a remote sink node for further processing and decision-making. In this ...

Cluster communication refers to the interaction among nodes within a cluster, typically involving single-hop communication where member nodes transmit data to a cluster head (CH) during ...

Clustering in WSNs is the most reliable solution for the challenges, in which nodes are grouped into few clusters, and a cluster head (CH) is selected for data aggregation and data transfer to ...

Clustering within WSNs emerges as a dependable solution, involving the grouping of the sensor nodes into clusters with the selection of a cluster head (CH) responsible to sensing data, ...

**Single-Hop Communication :** Cluster heads (CHs) send data straight to the base station (BS), which requires significant energy, especially from nodes located far away.

In this paper, the Free Space Optical (FSO) system is employed as a communication links among the CHs and between the CHs and SN. FSO is a wireless ...

All the nodes in the cluster send their data to the cluster head and cluster head then communicates with the base station. The members which are connected to the cluster head ...



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