

Cluster communication system consists of base stations

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What is cluster communication?

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 allocated time slots.

What is a cluster based network?

The aim is to work efficiently like an infrastructure-based network and be appropriately managed by making topology less dynamic. In the cluster, a node responsible for Intra- and inter-cluster communication is known as cluster head, whereas the other nodes that share their data to cluster head for communication are called cluster members.

Why are base stations important in cellular communication?

Base stations are important in the cellular communication as it facilitate seamless communication between mobile devices and the network communication. The demand for efficient data transmission are increased as we are advancing towards new technologies such as 5G and other data intensive applications.

Why is multiple base station cooperation important?

Multiple base stations (BSs) cooperation can effectively reduce the inter-cell interference and especially improve the performance of the cell-edge users, which has been regarded as an important technology in future wireless communication system.

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