

Cluster communication system base station



Overview

Each cellular base station is allocated a group of radio channels to be used within a small geographic area called a cell. The invention discloses a cluster communication system, a method and a base station based on DECT (digital enhanced cordless telecommunications), wherein the system comprises the base station, first communication equipment and a plurality of data receiving ends, when receiving a first request for. The cellular concept is a system-level idea which calls for replacing a single, high power transmitter (large cell) with many low power transmitters (small cells), each providing coverage to only a small portion of the service area. It usually connects the device to other networks or devices through a dedicated high bandwidth wire of fiber optic connection. Base stations typically have a transceiver, capable of sending and. Department of Telecommunication Engineering, Universidad de Jaén, 23700 Linares, Spain Department of Electrical Engineering, Universidad de Málaga, 29071 Málaga, Spain Author to whom correspondence should be addressed.

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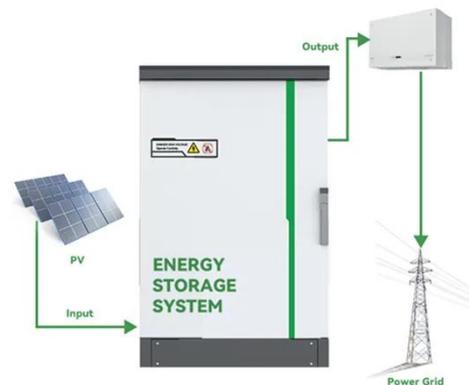


Modeling information and communication interaction in 5G cluster

In this study, we developed a stochastic model to analyse the information and communication interaction between a base station and a set of subscribers in a 5G cluster with ...

Base Stations

Base stations form a key part of modern wireless communication networks because they offer some crucial advantages, such as wide coverage, continuous communications and an array of ...



Understanding Base Station Controller Architecture: A ...

What is a Base Station Controller? A base station controller (BSC) is a vital component in the mobile telecommunications network that acts as the central hub for communication between ...

A Distributed Clustering Algorithm Guided by the Base Station to ...

This paper presents a distributed approach to form the clusters dynamically, but it is occasionally supported by the Base Station. In particular, the Base Station sends three messages during the ...

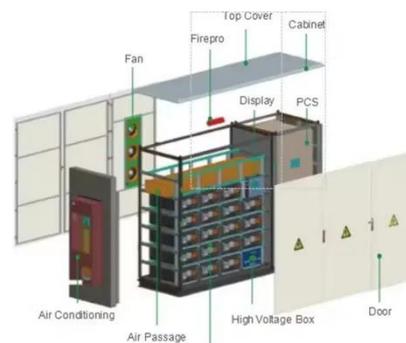


The Cellular Concept-- System Design Fundamentals

Base stations in adjacent cells are assigned channel groups which contain completely different channels than neighboring cells. The base station antennas are designed to achieve the desired coverage ...

Research on Base Station Site Planning Based on Cluster Analysis ...

In order to improve the quality of mobile communication, this paper uses the normal distribution 3-standard deviation method, Euclidean distance and 0-1 planning site selection model to ...



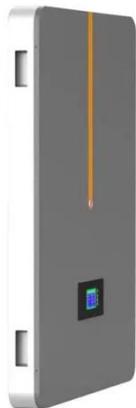
A Distributed Clustering Algorithm Guided by the Base Station to

The centralized clustering algorithms rely on a sink or Base Station (BS) to select the CHs. To do so, the BS requires extensive data from the nodes, which sometimes need complex ...



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The embodiment of the invention provides a cluster communication system based on DECT, which comprises a base station, first communication equipment and a plurality of data receiving ends;



A study of base station establishment site selection based on cluster

In this paper, to address the site planning and area clustering problems of mobile communication networks, the K-mean clustering algorithm, linear programming,

Cluster Analysis of mobile communication network station location

Because there are so many different types of base stations and antennas, the choice of site becomes more complicated. This paper mainly uses the 0-1 knapsack dynamic programming ...



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