

What are the base station site coordination methods





Overview

How can a mobile station communicate with multiple base stations?

For example, in Code Division Multiple Access (CDMA) networks, a mobile station can communicate simultaneously with several base stations by means of soft handoff, and it can select the best channel among those base stations at any given time by selection diversity.

What is base station cooperation (Comp)?

CoMP is a special technique of base station cooperation. The history of base station cooperation can be traced back to the 1990s when the concept of macro-diversity was proposed.

How does distributed execution affect base station control?

In the distributed execution phase, each actor network makes decisions independently based only on its own network and observations, and although each actor executes independently, the whole system is able to obtain a better base station control strategy because their strategies are based on the results of global optimization. Fig. 2.

What is base station dormancy?

In response to the problem of high network energy consumption caused by the dense deployment of SBS, the base station dormancy technique is seen as an effective solution, as it does not require changes to the current network architecture and is relatively simple to implement. This technique was first proposed in the IEEE 802.11b protocol .



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Base stations cooperation management algorithm based on ...

Jan 1, 2022 · The solution found by executing the algorithm proposes the use of the joint transmission (JT) cooperation scheme to interconnect user 7 to base stations 1 and 2, and for ...

Multi-objective cooperative optimization of ...

This paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network (ADN) and constructs a ...

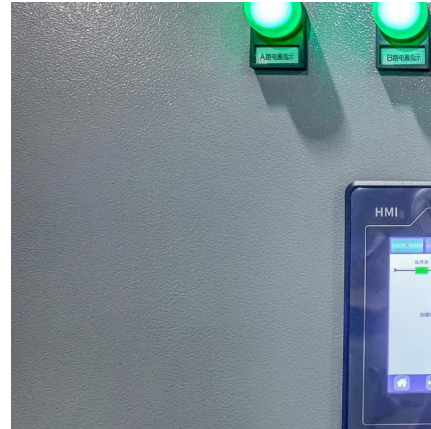


Base Station Coordination towards an Effective Inter-cell ...

Apr 24, 2019 · Abstract Improving cell-edge multi-user performance in 3GPP Long Term Evolution-Advanced networks is becoming a serious concern for the next generation wireless ...

What are the synchronization methods in a TETRA Base Station?

Network - based synchronization allows for better coordination between base stations but depends on the network quality. As a TETRA Base Station supplier, we understand the ...



Energy-saving control strategy for ultra-dense network base stations

Aug 1, 2025 · A base station control algorithm based on Multi-Agent Proximity Policy Optimization (MAPPO) is designed. In the constructed 5G UDN model, each base station is considered as ...



On the Need for Coordination Among Base Stations in a ...

Mar 31, 2012 · Abstract--In this paper, we study the impact of different resource allocation schemes, transmission coordination mechanisms among base stations, and user association ...



Base Station Coordination Scheme for Multi-Tier Ultra-Dense Networks

May 28, 2021 · In this paper, we consider a relative received link power (RRLP)-based coordinated multi-point (CoMP) joint transmission (JT) in the multi-tier ultra-dense networks ...





Communication Base Station Site Selection Method Based ...

Oct 10, 2025 · With the large-scale deployment of 5G technology, the rationality of communication base station siting is crucial for network performance, construction costs, and operational ...



Coordinated Multipoint Transmission and Reception

Jan 1, 2020 · Coordinated Multipoint (CoMP) transmission and reception comprises a series of schemes that a user equipment (UE) is served simultaneously by several points to enhance ...

Base Station Coordination in Multicell MIMO Networks

Nov 25, 2022 · One efficient technique to combat intercell interference is via exploiting coordination among multiple base stations, which is known as multicell processing or simply ...



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