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# What is the base station site coordination method

What is a cooperative BS (base station)?

Sharing channel information and user data, several cooperative BSs (Base stations) in CoMP (Coordinated Multi-Point) transmit multi-streams to one user or multiple users simultaneously which can convert inter-cell interference signal to desired signal.

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 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 a point in a cellular base station?

A point refers to a set of geographically co-located transmit antennas, such as the set of antennas at a cellular base station (BS). Note that different sectors of the same BS site are thought of as different points.

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

This paper proposes a method for designing base station (BS) clusters and cluster patterns for pair-wise BS coordination. The key idea is that each BS cluster is formed by using ...

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 ...

Through decreasing inter-cell interferences, CoMP (Coordinated Multi-Point) can enhance system capacity and spectral efficiency of cell-edge users significantly. BSs (Base ...

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 ...

Base Station Coordination Scheme for Multi-tier Ultra-dense Networks Sudarshan Mukherjee, Member, IEEE, Dongsun Kim, Student Member, IEEE, and Jemin Lee, Member, ...

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

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