

Title: Cross-base station communication

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What does a base station do?

Frequency Allocation: The base stations are responsible for assigning frequencies to various users within an area of which they have control. This prevents conflicts between various users and ensures the best use of radio spectrum.

What is a terrestrial base station?

The terrestrial base stations adopt co-frequency network structure, and they rely on fixed communication infrastructure to establish stable relay links among base stations. These base stations can use interference cancellation and coordination to reduce co-channel interference caused by frequency sharing.

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.

What are the properties of a base station?

Here are some essential properties: **Capacity:** Capacity of a base station is its capability to handle a given number of simultaneous connections or users. **Coverage Area:** The coverage area of a base station is that geographical area within which mobile devices can maintain a stable connection with the base station.

conducted to evaluate the communication performance of our proposed solution for MA-aided multiuser communication systems. It is shown that the proposed scheme not only increases the ...

To address this problem, this paper proposes an inter-BS synchronization scheme based on the reference path calibration. Specifically, based on the actual distance and velocity ...

Abstract: One method of using a metasurface to reduce the cross-band mutual interference of the dual-band aperture-shared antenna array is proposed. A base-station dual-band antenna ...

In this paper, we investigated the observation and performance for millimeter-level ground deformation detection based on ...

In this paper, a new dynamic cellular network framework is developed for UAV-BS networks with frequency reuse. First, the coverage radius of UAV-BS cells is maximized by ...

A cross link interference (CLI) measurement method and apparatus, a base station, and a controller, relating to the technical field of communications.

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

It's here that TDD networks experience so-called cross-link interference, where the base stations interfere with each other as they transmit and receive in the same frequency ...

Base stations form a key part of modern wireless communication networks because they offer some crucial advantages, ...

Abstract--Movable antenna (MA) has been regarded as ng technology to enhance wireless communication per-formance by enabling flexible antenna movement. However, the hardware ...

In this paper, we investigated the observation and performance for millimeter-level ground deformation detection based on the CBS with Differential InSAR (D-InSAR) for the first ...

As more and more frequency bands are being used in mobile communications, one of the major trends of base station antenna development is to achieve dual-band dual-polarization ...

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