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Title: Cluster communication channels of different base stations

Generated on: 2026-07-08 12:21:28

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Because sectoring involves using more than one antenna per base station, the available channels in the cell are divided and dedicated to a specific antenna. This breaks the available set of ...

In this paper, a novel dynamic clustering algorithm for multiple BSs cooperation in downlink is proposed, and system energy efficiency (EE) is investigated.

In this extensive article, we explore the various factors that influence channel selection for base stations, the impact of the wireless environment, and best practices for achieving optimal ...

In the cellular concept, frequencies allocated to the service are re-used in a regular pattern of areas, called "cells", each covered by one base station. In mobile-telephone nets these cells are usually ...

Neighboring base stations are assigned different groups of channels so that the interference between base stations (and the mobile users under their control) is minimized.

In practice, the transmitters of competing cellular providers are often a significant source of out-of-band interference, since competitors locate their base stations in close proximity to one another to provide ...

Each cellular base station is allocated a group of radio channels to be used within a small geographic area called a cell. Base stations in adjacent cells are assigned channel groups which contain ...

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 ...

To optimize and evaluate ISAC systems and techniques, it is crucial to have an accurate and realistic wireless channel model.

Cluster communication channels of different base stations

Conversely, a small cluster size (N) indicates that co-channel cells are located much closer together. The value for N is a function of how much interference a mobile or base station can tolerate while ...

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