

Base station site coordination process





Overview

Time is a crucial factor for decision making, especially in environments where it is necessary to provide a high quality of experience for the users and at the same time make efficient use of their resources; functio.

Can base station downlink activities mitigate inter-cell interference?

Differently from the work available in the literature, we tackle the problem of inter-cell interference mitigation from the perspective of scheduling base stations rather than users. In particular, we propose to coordinate base station downlink activities in order to mitigate the interference caused to neighboring cells.

What happens when all base stations are allocated?

When all base stations are allocated, the algorithm ends returning the complete base station scheduling plan. One of the key parameters upon which BASICS relies is the SINR threshold T_h , i.e., the minimum SINR guaranteed to each scheduled user in the system.

How does a base station re-check a subnetwork?

Once base stations are sorted, the algorithm removes the most interfering base station from the set of candidate base stations (lines 12-13). The algorithm then re-checks SINR constraints for the subnetwork obtained by removing the most interfering base station and all its users from the original network.

What is a base station scheduling problem?

base station scheduling problem to decide whether a base station is allowed to transmit to any of its users in a given sub-frame, without causing excessive interference to any of the users of other scheduled base stations.



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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 ...



[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 ...

[1 Cooperative Base Station Coloring for Pair-wise Multi ...](#)

Sep 5, 2022 · the proposed BS coordination strategy in a fixed irregular network model. Under the premise that multi-user coordinated beamforming (CBF) [27] is applied to mitigate intra-cluster ...



[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 ...



[Improving Base Station Coordination Based Packet ...](#)

Jan 27, 2005 · Abstract In this paper, we present a novel transmission scheduling scheme for fixed broadband wireless access (FBWA) networks. In order to mitigate high co-channel ...



[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 ...



[BASICS Scheduling Base Stations to Mitigate ...](#)

Jan 16, 2024 · In this thesis, we focus on the coordination among adjacent base stations to achieve high spectral efficiency. Differently from the work available in the literature, we tackle ...





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 ...



[Base Station Coordination Scheme for Multi-tier Ultra ...](#)

Jan 23, 2023 · Base Station Coordination Scheme for Multi-tier Ultra-dense Networks Sudarshan Mukherjee, Member, IEEE, Dongsun Kim, Student Member, IEEE, and Jemin Lee, Member, ...

[On Base Station Coordination in Cache](#)

Apr 8, 2024 · Abstract--In this paper, we study the performance of base station (BS) coordination in heterogeneous networks (HetNets) with cache-enabled and renewable energy-powered ...



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