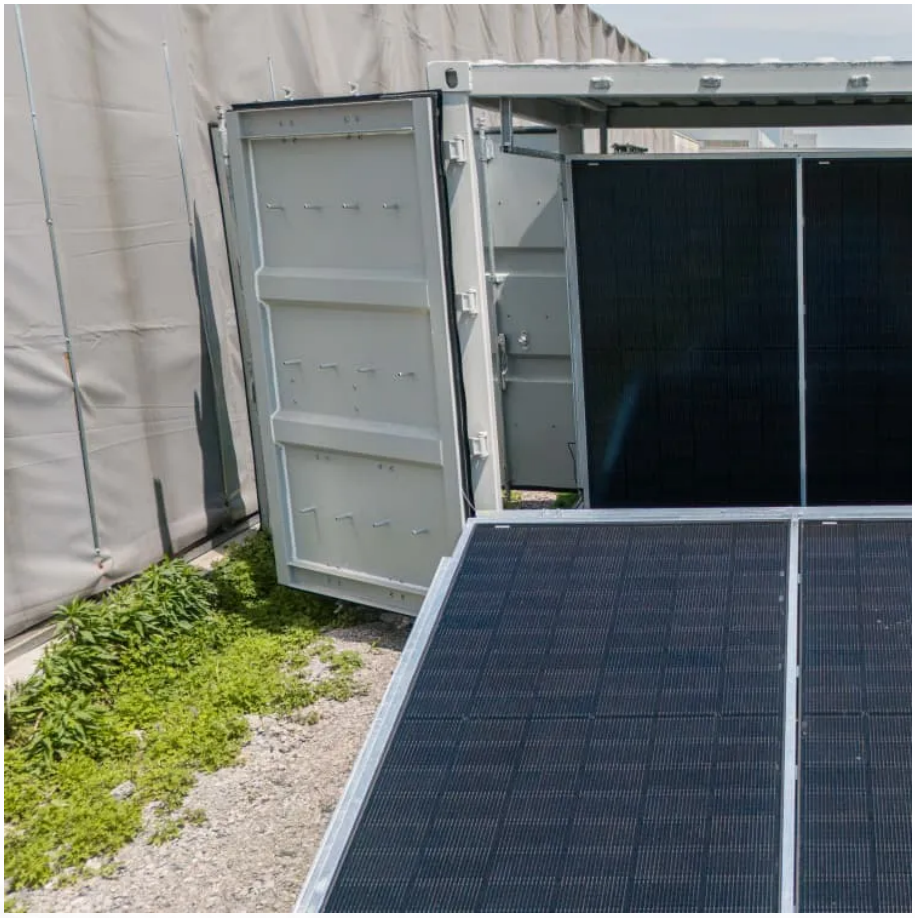
ŁOTWA SYSTEM

Base station communication interference principle



Overview

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.

Can base station scheduling reduce interference?

Interestingly, they do not identify base station scheduling as a possible tool to reduce interference, and limit their discussion to beamform-ing, coding and decoding techniques, opportunistic spectrum access, interference cancella-tion, power control and (fractional) frequency reuse.

How do you calculate a base station interference figure?

The overall interference figure of a base station is computed by summing up all interferences caused by that base station (line 11). Once base stations are sorted, the algorithm removes the most interfering base station from the set of candidate base stations (lines 12-13).

What are the types of interference among frequency-sharing systems?

There are several types of mutual interference among frequency-sharing systems: (1) interference among terrestrial stations; (2) interference between satellite–earth links; and (3) interference between terrestrial stations and earth stations.

Base station communication interference principle

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Interference Signal Suppression Algorithm Based on 5G Base Station
Dec 16, 2024 · Aiming at the limitation that traditional interference suppression algorithms cannot achieve direct wave signal suppression in single channel and the complexity of their methods ...

Base Station Coordination towards an Effective Inter-cell ...
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BASICS Scheduling Base Stations to Mitigate ...
Jan 16, 2024 · a 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 ...

Inter-Cell Interference Coordination (ICIC) Technology
a technology for reducing inter-cell interference and improving throughput at cell edges. These discussions resulted in the specification of an interface between base stations (the X2 ...

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