EQACC SOLAR

Is there any interference between energy and base station communication

Overview

Can micro base stations improve network coverage?

Conferences > 2019 IEEE SmartWorld, Ubiquit. With the advent of the 5G era, mobile users have higher requirements for network performance, and the expansion of network coverage has become an inevitable trend. Deploying micro base stations (BSs) is regarded as one of feasible approaches to enhance network coverage.

Are base stations a threat to the safe operation of electric network?

Abstract: The ultra-dense deployment of base stations (BSs) results in significant energy costs, while the increasing use of fluctuating renewable energy sources (RESs) threatens the safe operation of electric network (EN). These issues can be addressed by coordinating BSs' active/sleep states with RES generation.

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.

Do all base stations use the same frequency?

Unless otherwise specified, all base stations use the same frequencies. Users associate to the base station from which they receive the strongest signal, and transmission rates are selected, in each subframe, according to the Signal-plus-Noise Interference Ratio (SINR), see Table 5.1. The SINR for a certain user u = 1 : : : k is defined as follows:

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5G and energy internet planning for power and communication ...

Summary Our research addresses the critical intersection of communication and power systems in the era of advanced information technologies. We highlight the strategic importance of ...

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Trade-Off Between Renewable Energy Utilizing and Communication ...

The ultra-dense deployment of base stations (BSs) results in significant energy costs, while the increasing use of fluctuating renewable energy sources (RESs) threatens the ...

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Energy-efficiency schemes for base stations in 5G ...

In today's 5G era, the energy efficiency (EE) of cellular base stations is crucial for sustainable communication. Recognizing this, Mobile Network Operators are actively prioritizing EE for ...

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Joint Optimization of Interference Coordination Parameters and Base

The user equipments (UEs) scheduling strategy for macro base station (MBS) and pico base stations (PBS) with the further-enhanced inter-cell interference coordination ...

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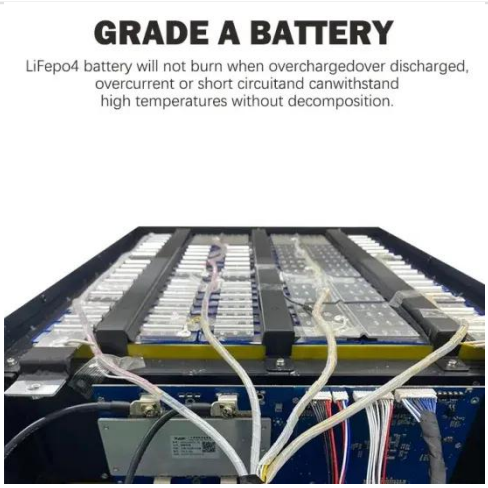

Energy Consumption Optimization Technique for Micro ...

As-sumed there is a communication path from each target base station in a cell to other target base stations and nontarget base stations in other cells. Micro base station ...

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BASICS Scheduling Base Stations to Mitigate ...

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 ...

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Energy-saving control strategy for ultra-dense network base stations

A base station control algorithm based on Multi-Agent Proximity Policy Optimization (MAPPO) is designed. In the constructed 5G UDN model, each base station is considered as ...

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5G and energy internet planning for power and communication ...

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Energy-Efficient Base Station Deployment in Heterogeneous Communication

With the advent of the 5G era, mobile users have higher requirements for network performance, and the expansion of network coverage has become an inevitable trend. ...

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Joint Optimization of Interference Coordination Parameters and Base

Heterogeneous networks (HetNets), consisting of macro-cells and overlaying pico-cells, have been recognized as a promising paradigm to support the exponential growth of ...

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