



FTMRS SOLAR

# Multi-base station service communication





## Overview

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What is a distributed collaborative optimization approach for 5G base stations?

In this paper, a distributed collaborative optimization approach is proposed for power distribution and communication networks with 5G base stations. Firstly, the model of 5G base stations considering communication load demand migration and energy storage dynamic backup is established.

What is a collaborative optimal operation model of 5G base stations?

Afterward, a collaborative optimal operation model of power distribution and communication networks is designed to fully explore the operation flexibility of 5G base stations, and then an improved distributed algorithm based on the ADMM is developed to achieve the collaborative optimization equilibrium.

What is a 5G base station?

At the same time, a large number of 5G base stations (BSs) are connected to distribution networks, which usually involve high power consumption and are equipped with backup energy storage, giving it significant demand response potential.

Are multi-BS cooperative sensing algorithms suitable for mobile communication systems?

processing algorithms for mobile communication systems are not initially designed for radar sensing. Therefore, it is necessary to design the multi-BS cooperative sensing algorithms, which fuse the sensing information from multiple BSs to improve the per



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### Integrated Sensing and Communication Enabled Multiple Base Stations

Oct 6, 2023 · Driven by the intelligent applications of sixth-generation (6G) mobile communication systems such as smart city and autonomous driving, which connect the physical and cyber ...

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### Multi-Base Station Cooperative Sensing with AI-Aided Tracking

Oct 31, 2023 · In this work, we investigate the performance of a joint sensing and communication (JSC) network consisting of multiple base stations (BSs) that cooperate through a fusion ...

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### RIS-Aided Non-Cooperative Multi-Base Station Multi-User ...

Jan 13, 2025 · Multi-base station (MB) serving multi-user (MU) would be the most important scenario in the integrated sensing and communication (ISAC) scheme. However, removing ...

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### Multimodal Optimal Base Station Selection Network for ...

Nov 12, 2025 · With the rapid development of next-generation wireless communication systems, the increasing density of heterogeneous base stations and the dynamic nature of channel ...

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### Collaborative optimization of distribution network and 5G base stations

Sep 1, 2024 · In this paper, a distributed collaborative optimization approach is proposed for power distribution and communication networks with 5G base stations. Firstly, the model of 5G ...

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### Joint Target Assignment and Resource Allocation for Multi-Base Station

Jan 6, 2025 · We formulate a joint optimization problem for ISAC beamforming and target allocation, ensuring communication quality of service (QoS) and base station (BS) power ...

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### Multi-objective cooperative optimization of ...

This paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network (ADN) and constructs a ...

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### Integrated Sensing and Communication enabled Multiple Base Stations

Oct 12, 2023 · Driven by the intelligent applications of sixth-generation (6G) mobile communication systems such as smart city and autonomous driving, which connect the ...

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### Integrated Sensing and Communication enabled ...

Nov 27, 2023 · Driven by the intelligent applications of sixth-generation (6G) mobile communication systems such as smart city and autonomous driving, which connect the ...



Joint Communication and Positioning of UAV with Multiple Base Stations

Jun 12, 2025 · It delves into UAV communication and location collaboration technology oriented towards base station sensing, with a primary focus on the communication-sensing issues of ...

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