



Integrated signal base station energy method





Overview

The paper aims to provide an outline of energy-efficient solutions for base stations of wireless cellular networks.

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This paper investigates energy-efficient communication within an integrated sensing and communication system. The system employs a dual-function radar-communication base station. This base station concurrently serves multiple mobile users for communication purposes while also performing target.

The hybrid MIMO architecture communicates with multiple users and simultaneously detects multiple targets. The proposed scheme seeks to maximize the EE of the system, considering the signal-to-interference and noise ratio (SINR) as the user's quality of service (QoS) and the sensing beampattern gain.

To enhance the utilization of base station energy storage (BSES), this paper proposes a co-regulation method for distribution network (DN) voltage control, enabling BSES participation in grid interactions. In this paper, firstly, an energy consumption prediction model based on long and short-term.

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 both network maintenance and environmental stewardship in future cellular networks. The paper aims to provide.

strains on roads. It can detect the targets on the road with communication signals using the integrated sensing and communication (ISAC) technique. Compared with vehicle-mounted radar, SBS has a better sensing field due to its higher deployment position, which can help solve the problem of sensing.



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

Aiming at the problem of mobile data traffic surge in 5G networks, this paper proposes an effective solution combining massive multiple-input multiple-output techniques ...

Energy-efficiency schemes for base stations in 5G heterogeneous

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 ...

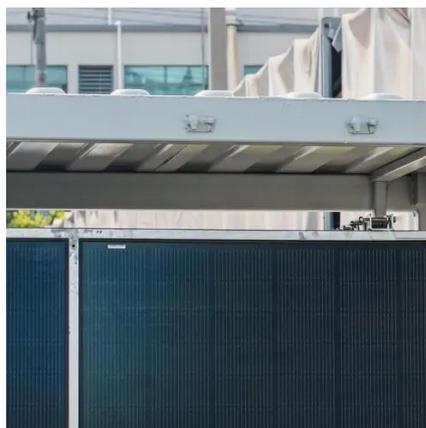


Joint Base Station Selection and Power Allocation Design for

Cell-free (CF) networks can reduce cell boundaries by densely deploying base stations (BSs) with additional hardware costs and power sources. Integrating a reconfigurable ...

Energy-Efficient Hybrid Beamforming for Integrated Sensing ...

The hybrid MIMO architecture communicates with multiple users and simultaneously detects multiple targets. The proposed scheme seeks to maximize the EE of the system, considering ...



[Joint Base Station Selection and Power Allocation](#)

...

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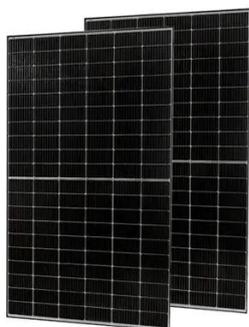
Coordinated scheduling of 5G base station energy storage for ...

To enhance the utilization of base station energy storage (BSES), this paper proposes a co-regulation method for distribution network (DN) voltage control, enabling BSES ...



Uplink MIMO Communications With RIS-Integrated Base Station: ...

In this article, we propose an RIS-integrated base station (BS) by deploying an RIS sufficiently close to the base station antennas (BAs), within its radiative near-field range.



[Integrated Sensing and Communication enabled Sensing ...](#)



1) Duplex Interference between Sensing and Communication: Duplex interference consists of two main components: interference of the sensing echo signal to the uplink communication signal ...

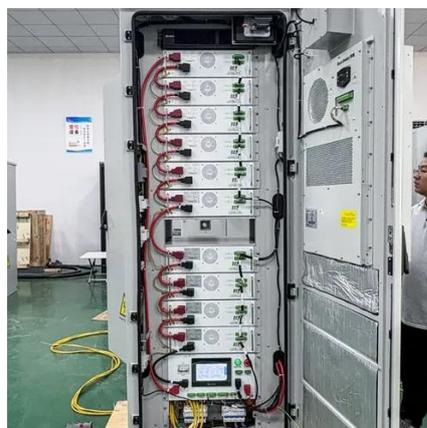


Energy-Efficient Interference Cancellation for

Abstract: Integrated sensing and communication (ISAC) systems leverage coordinated multi-point (CoMP) base stations (BSs) to deliver high-accuracy sensing and ...

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

Aiming at the problem of mobile data traffic surge in 5G networks, this paper proposes an effective solution combining massive multiple-input multiple-output techniques ...



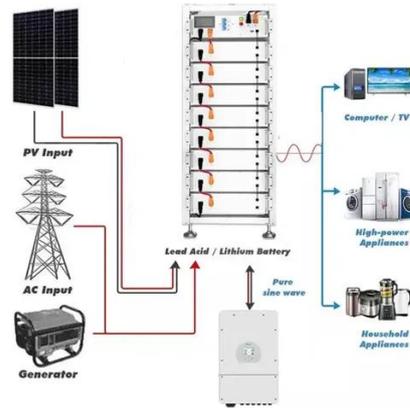
Secure energy efficiency maximization in cell-free networks with ...

This paper proposes a secure energy efficiency scheme for CF networks using sub-connection active reconfigurable intelligent surfaces that aims to optimize base station and ...

Energy efficiency maximization for active RIS-aided ...



Two novel optimization methods are proposed, combining techniques from alternating optimization, sequential programming, and fractional programming. Through numerical ...



Coordinated scheduling of 5G base station energy

...

To enhance the utilization of base station energy storage (BSES), this paper proposes a co-regulation method for distribution ...



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