
Brussels integrated signal base station energy method

What is threshold-based base station sleep strategy?

Threshold-based base station sleep strategy is a common base station management method in wireless communication networks, which adjusts the operating state of the base station to save energy and improve resource utilization by dynamically setting appropriate thresholds.

Can a base station sleep strategy reduce energy consumption in UDN systems?

The goal of this paper is to find a base station sleep strategy in UDN systems that reduces the total system energy consumption while being able to guarantee QoS.

Why is BS a good G-Distance sensing system?

g-distance sensing: The power of BS is high, owning excellent performance in long-distance sensing. Mutual benefit between sensing and communication: The sensing function assists communication in beamforming and beam alignment. Communication assists sensing in providing the pr

What are the standardized energy-saving metrics for a base station?

(1) Energy-saving reward: after choosing a shallower sleep strategy for a base station, the system may save more energy if a deeper sleep mode can be chosen, and in this paper, the standardized energy-saving metrics are defined as (18) $R_{ie} = E_{SM} - E_{SM}^i$ $E_{SM} = 0$ $E_{SM} = i$ $E_{SM} = 0$ $E_{SM} = 3$

This paper proposes a double-layer clustering method for 5G base stations and an integrated centralized-decentralized control strategy for their participation in frequency ...

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 ...

This paper investigates an ISAC downlink system, where a base station (BS) simultaneously performs multiuser communication and radar target sensing by sending well ...

TS 103 786 - V1.3.1 - Environmental Engineering (EE); Measurement method for energy efficiency of wireless access network equipment; Dynamic energy efficiency ...

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 ...

This paper studies the sensing base station (SBS) that has great potential to improve the safety of vehicles and pedestrians on roads. It can detect the targets on the road ...

However, these storage resources often remain idle, leading to inefficiency. To enhance the utilization of base station energy storage ...

TS 103 786 - V1.2.1 - Environmental Engineering (EE); Measurement method for energy

efficiency of wireless access network equipment; Dynamic energy efficiency ...

The rise of 5G communication has transformed the telecom industry for critical applications. With the widespread deployment of 5G base stations comes a significant concern ...

In particular, integrating passive IS into the base station (BS) is a novel solution to enhance the wireless network throughput and coverage both cost-effectively and energy ...

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 ...

Reconfigurable intelligent surface (RIS) has gained significant momentum as a cost-effective and energy-efficient technology to enable the next generation of mobile ...

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

With the support of integrated sensing and communication (ISAC) technology, mobile communication system will integrate the function of wireless sensing, thereby ...

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