

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 ?

Aug 1, 2025 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 ?

Mar 1, 2024 A significant number of 5G base stations (gNBs) and their backup energy storage systems (BESSs) are redundantly configured, possessing surplus capacity?

Jul 15, 2017 To meet the design requirements of the green base stations [21], [22] and reduce operation cost of base station, this paper focuses on the effects of building structural design ?

To further explore the energy-saving potential of 5 G base stations, this paper proposes an energy-saving operation model for 5 G base stations that incorporates communication caching ?

Jan 21, 2025 This paper studies the sensing base station (SBS) that has great potential to improve the safety of vehicles and pedestrians on roads. SBS can detect the targets on the ?

Dec 16, 2020 In recent years, with the rapid deployment of fifth-generation base stations, mobile communication signals are becoming more and more complex. How to identify and classify ?

Nov 15, 2024 The potential benefits of 5G networks, such as faster data speeds and improved user experiences, come with a critical challenge?efficiently preserving energy in base stations ?

Jul 26, 2024 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 ?

Jan 14, 2025 Reconfigurable intelligent surface (RIS) has gained significant momentum as a cost-effective and energy-efficient technology to enable the next generation of mobile ?

Feb 1, 2022 In this paper, we introduce a mixed- analog-to-digital converter (ADC) architecture for massive multiple-input multiple-output (MIMO) systems and study the system's ?

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Dec 1, 2024 There is a lack of models that can fully evaluate the post-earthquake functional states of base stations with the consideration of the dependencies between different ?

Dec 8, 2023 Optimize Signal Quality In 5G Private Network Base Stations With the rapid evolution of cellular communication systems, there is a growing need for higher operating ?

Apr 10, 2023 Abstract?Densely deployed base station (BS) network is one of the important technologies for 5G and beyond mobile communication system, which improves the system ?

Jun 1, 2021 Abstract The paper derives the throughput of wireless communications using reconfigurable intelligent surfaces (RIS) with energy harvesting. The base station (BS) ?

Jan 23, 2023 Importantly, this study item indicates that new 5G power consumption models are needed to accurately develop and optimize new energy saving solutions, while also ?

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