

Dec 7, 2023 · In the communication power supply field, base station interruptions may occur due to sudden natural disasters or unstable ...

Jul 18, 2019 · To improve the energy efficiency (EE) of UDNs, we present a joint optimization method considering user association and small-cell base station (SBS) on/off strategies in ...

Feb 1, 2021 · Renewable energy is considered a viable and practical approach to power the small cell base station in an ultra-dense 5G network infrastructure to reduce the energy provisions ...

Oct 13, 2023 · A novel integer linear programming (ILP) formulation of deploying base stations and repeaters to meet a target coverage of traffic points (TPs) with minimum cost is presented, ...

Oct 24, 2025 · In order to solve the poor heat dissipation in the outdoor mobile communication base station, especially in summer, high temperature alarm phenomenon occurs frequently, ...

Mar 13, 2015 · Small cell networks offer a promising and viable approach to meeting the increasing demand for high-data-rate wireless applications. With the expected increase in the ...

Jun 1, 2024 · The energy consumption of the mobile network is becoming a growing concern for mobile network operators and it is expected to rise further with operational costs and carbon ...

Feb 15, 2024 · The use of renewable energy to supply the small base stations has been recently considered as a mean to reduce the energy footprint of the mobile networks.

Aug 23, 2019 · 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. ...

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 ...

Dec 30, 2024 · Optimised configuration of multi-energy systems considering the adjusting capacity of communication base stations and risk of network congestion

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 ...

Mixed energy for small space communication base station

Sep 23, 2020 · The interaction capability provided by the Internet of Things (IoT) significantly increases communication between human and ...

Jul 23, 2025 · Base stations are one of the widely used components in the field of wireless communication and networks. It is an access point or ...

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