5g base station intelligent power controller

Power control in 5G is essential for optimizing network capacity, extending battery life, and ensuring robust connectivity. In this article, we will explore various power control ...

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 ...

Hence, this paper discusses the energy management in wireless cellular networks using wide range of control for twice the reduction in energy conservation in non-standalone ...

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 ...

The telecom tower energy management solution not only focuses on energy saving but also achieves comprehensive monitoring and management of base station power usage through ...

To extend the coverage of a macrocell, distributive antenna systems (DASs) are used in conjunction with the cell tower. DASs take a signal from the base station and boost it to ...

Thus, in this paper, we propose a novel intelligent dynamic power control (DPC) with cell range expansion (CRE) to improve the downlink performance of both small-cell user ...

This technical report explores how network energy saving technologies that have emerged since the 4G era, such as carrier shutdown, channel shutdown, symbol shutdown etc., can be ...

To enhance system efficiency and establish green wireless communication systems, this paper investigates

base station sleeping and power allocation strategy based on ...

Grounded in the spatiotemporal traits of chemical energy storage and thermal energy storage, a virtual battery model for base stations is established and the scheduling ...

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

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