Power saving technology for 5G base stations

The rapid development of 5G technology leads to increasing energy consumption in base stations (BSs). For the vision of green and sustainable communications, we.

This paper presents an exhaustive review of power-saving research conducted for 5G and beyond 5G networks in recent years, elucidating the advantages, disadvantages, and ...

In response to the energy-saving needs of 5G base stations, this article combines IoT technology, artificial intelligence technology, and thermal design technology to conduct research on energy ...

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 ...

This paper introduces several existing wireless power saving tech-nologies for 5G base stations, and then uses various technologies to carry out single-station power saving tests in the pilot area.

Aiming at minimizing the base station (BS) energy consumption under low and medium load scenarios, the 3GPP recently completed a Release 18 study on energy savi

In this article, the authors introduce a load based sleep scheduling mechanism with reduced state transitions for IEEE 802.16e Networks. The mechanism encompasses two phases, load-based ...

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 ...

In this paper, a framework is developed to study the impact of different power model assumptions on energy

saving in a 5G separation architecture comprising high power ...

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 ...

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