

Evaluation methods for communication base station energy management systems

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Our proposed analytical methodology simplifies the complex network EC evaluation. Using this methodology, we show that identifying the right BS type for a given deployment area can reduce the...

Given the problems with traditional energy-saving effect testing schemes, this paper proposes an AI-based testing scheme for the energy-saving effect of AAU, achieving automated ...

This review of the scientific literature is developed and presented in order to explore various aspects of energy consumption and thermal management strategies in last-generation ...

The implementation of various base station (BS) energy saving (ES) features and the widely varying network traffic demand makes it imperative to quantitatively

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 and ...

With an emphasis on western Uganda, the current study examined the on-site energy consumption in base stations of telecommunication for Airtel locations in Uganda. In this work, the following materials ...

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 both ...

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 leveraged to ...

Therefore, this paper investigates changes in the instantaneous power consumption of GSM (Global System

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for Mobile Communications) and UMTS (Universal Mobile Telecommunications System) ...

Then, a novel hybrid multicriteria decision-making (MCDM) model based on the Bayesian best-worst method (BBWM) and difference-quotient gray ...

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