

To reduce the extra power consumption due to frequent sleep mode switching of base stations, a sleep mode switching decision algorithm is proposed. The algorithm reduces unnecessary ...

We demonstrate that this model achieves good estimation performance, and it is able to capture the benefits of energy saving when dealing with the complexity of multi-carrier base stations architectures.

It explores how to use network energy saving technologies, such as carrier shutdown, channel shutdown, and symbol shutdown in 5G network, that have been inherited from 4G.

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

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 ...

Switching off base stations is a common approach to reduce the power consumption of cellular networks. This work evaluates the potential for reducing power consumption while ...

In this paper, a distributed collaborative optimization approach is proposed for power distribution and communication networks with 5G base stations. Firstly, the model of 5G ...

These enablers are designed to facilitate dynamic energy-saving techniques for 5G base stations (gNBs). The objective is to reduce gNB energy use by operating the radios more efficiently than ...

In the coming future due to the 5G network, the environmental sustainability and energy consumed by the femtocell BSs will turn into a big problem. Hence, effective strategies for diminishing the ...

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 ...

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