

Title: Base station power sleep technology

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These technologies involve strategies for dynamically adjusting the operational status of base stations, such as activating sleep modes during periods of low demand, to ...

ks. Among these, base stations (BSs) in radio access networks (RANs) account for over half of the total energy usage. To address this, we propose a multi-cell sleep strategy combined with ad.

Advanced sleep mechanism (ASM) is one of the efficient techniques for saving energy in the base station. This paper introduces three stochastic models for ASM based on ...

To reduce average power consumption and save power in 5G, we have modelled the 5G BSs sleeping mechanism as an M/G/1 queue with two types of vacations (two different ...

This paper designs a user-driven base station sleep and wake-up mechanism that considers user-generated wake-up signals to activate sleeping BSs and indicates that this method can ...

By adopting a user association and sleep strategy in this paper, BS power consumption can be reduced and the power system can allocate more power resources to ...

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 ...

In this paper, we propose a practical learning approach to obtain policies for BS sleep control via MARL with data-driven radio environment map (REM) calibration. In this approach, we first ...

To enhance system efficiency and establish green wireless communication systems, this paper investigates base station sleeping and power allocation strategy based on ...

As the primary source of energy consumption in communication networks, the power usage of 5G base station (BS) is a significant concern. The sleep mode (SM) of BS can be utilized to ...

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