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Title: Communication green base station frequency reduction method

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ory concerns, and potential energy crises arising from geopolitical tensions. In this work, we propose an approximate dynamic programming (ADP)-based method coupled with online optimization to switch ...

By switching such wireless base stations from the active state to sleep state, the power consumption of some wireless base stations can be ...

By integrating artificial intelligence (AI) and machine learning (ML), telecom operators can optimize network performance and reduce energy use in real time.

This research paper provides an exhaustive analysis of green communication strategies in 5G and next-generation networks, covering energy-efficient technologies, resource management, renewable ...

It takes advantage of changing traffic patterns on daily or weekly basis, and selectively switches some lightly loaded base stations to low energy consumption modes.

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 ...

The study assesses the influence of the frequency order of BS deactivation and examines user re-association strategies aimed at minimizing either path loss or transmission power.

In this part we examine the literature about the detrimental effects of electromagnetic radiation and different strategies to mitigate it, including spectrum sharing, device-to-device ...

It is now included as part of the conference record.

Since access networks are designed to support peak time traffic, the utilization of base stations can be very



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inefficient during off-peak time because the traffic profile is time varying.

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