Energy management of wireless network base stations

Researchers are currently exploring the anticipated sixth-generation (6G) wireless communication network, poised to deliver minimal latency, reduced power consumption, ...

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 ...

As the new radio (NR) based 5G network is configured to transmit signal blocks for every 20 ms, the proposed algorithm implements withstanding capacity of on or off based energy switching, ...

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 ...

Hence, this paper discusses the energy management in wireless cellular networks using wide range of control for twice the reduction in energy conservation in non-standalone deployment ...

Simulations conducted on a realistic multi-technology 5G New Radio (NR) RAN in an urban environment validate the efficacy of the proposed strategy, achieving up to 73% of ...

Due to the fact that base stations (BSs) are the main energy consumers in cellular access networks, this paper overviews the issue of BS management to achieve energy efficiency (load ...

Optimal energy management of BSs helps to reduce electricity bills for the wireless network and provides flexibility to the power networks. This article proposes the concept of spatial-temporal ...

Aiming at the problem of mobile data traffic surge in 5G networks, this paper proposes an effective solution

combining massive multiple-input multiple-output techniques ...

Hence, this paper discusses the energy management in wireless cellular networks using wide range of control for twice the reduction in energy ...

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