Mobile cluster communication green base station settings

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Mobile communication base stations, as the "nerve endings" of telecommunications networks, undertake core functions such as signal coverage and data transmission.

The coordination among the communication equipment and the standard equipment in 5G macro BSs is developed to reduce both the energy consumption and the ...

y reduce the delay or bandwidth overhead for acquiring and initializing applications. To address single-base station (BS) transmission limitation and serious edge effect in traditional cellular ...

To further enhance energy efficiency, this paper explores a green approach to FD-RAN by incorporating adaptive base station (BS) sleeping and resource allocation.

The research results provide scalable and efficient base station layout and configuration methods for continuous improvement of mobile network design, which can adapt ...

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 ...

To achieve these goals, a heterogeneous cloud radio access network (H-CRAN) is presented in this article as the advanced wireless access network paradigm, where cloud ...

This paper primarily assesses green solutions, then discusses the several issues it raises and provides the most significant measures that could help reduce the negative impacts ...

This paper develops a method to consider the multi-objective cooperative optimization operation of 5G

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communication base stations and Active Distribution Network (ADN) and constructs a ...

Specifically, we propose an analytical approach for determining the optimal number of BSs required to implement a hybrid network, i.e., that encompasses both fixed and mobile BS, ...

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