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Title: Mobile communication green base station maintenance optimization

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Abstract: Green network aims to promote the sustainable development of communication systems, and base station (BS) and cells sleeping has been proven effective in reducing the ...

This paper proposes two models for enhancing QoS through efficient and sustainable resource allocation and optimization of base stations. The first model, a Hybrid ...

Energy efficiency and renewable energy are the main pillars of sustainability and environmental compatibility. This study presents an overview of sustainable and green cellular ...

This paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network ...

Studies have shown that a key to sustainability is the large contribution of mobile communications to GDP growth.

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

For mobile networks powered by smart grids and green energy supply, the study in proposed an energy-sharing architecture among base stations based on physical lines and ...

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 ...

To further explore the energy-saving potential of 5 G base stations, this paper proposes an energy-saving

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operation model for 5 G base stations that incorporates ...

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 ...

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