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Title: Development of green base stations for wireless communications

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To address this challenge, the present study develops a comprehensive mathematical modeling framework for bio-hybrid base stations powered by synthetic biology, ...

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

Green transformation of network architecture: China Mobile is actively advancing CRAN deployment and streamlining base station upgrades. By simplifying the network, ...

Based on our previous research on green IoT, the far-field Wireless Power Transfer (WPT) powered by green energy can alleviate this problem.

A wide range of techniques and technologies are covered in this review article that focuses on innovative strategies, network architectures, and energy-efficient wireless ...

In this paper, we develop new energy-efficient, radio resource management schemes for green wireless networks. Our goal is to optimize energy consumption at the network scale while ...

Several techniques have been deployed to reduce the energy consumption of the base station in what is called a green base station. This paper presents an insight into these ...

It is imperative to thoroughly evaluate current state and challenges facing green and low-carbon mobile communication network technologies as well as delve into potential energy ...

This paper proposes two models for enhancing QoS through efficient and sustainable resource allocation and

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optimization of base stations. The first model, a Hybrid ...

Today, wireless base-stations consume a lot of power and contribute significantly to the carbon footprint of wireless industry (1.4%), which compares to that of aviation industry (2%).

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