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Title: Tbilisi Mobile 5G Base Station Power Consumption

Generated on: 2026-01-30 21:10:21

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This study examines the energy requirements of a multi-tenant BTS, focusing on power consumption patterns, key energy-intensive components, and optimization strategies.

The network power efficiency with the consideration of propagation environment and network constraints is investigated to identify the energy-efficient architecture for the 5G ...

Smart Energy Saving of 5G Base Station: Based on AI and other emerging technologies to forecast and optimize the management of 5G wireless network energy consumption

This paper proposes a power control algorithm based on energy efficiency, which combines cell breathing technology and base station sleep technology to reduce base station energy ...

In order to quantify and optimize the energy consumption of mobile networks, theoretical models are required to estimate the effect of relevant parameters on the total ...

In this thesis linear regression is compared with the gradient boosted trees method and a neural network to see how well they are able to predict energy consumption from field data of 5G ...

This study examines the energy requirements of a multi-tenant BTS, focusing on power consumption patterns, key energy ...

Abstract 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 ...

To address this, we propose a novel deep learning model for 5G base station energy consumption estimation

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based on a real-world dataset. Unlike existing methods, our approach integrates ...

Importantly, this study item indicates that new 5G power consumption models are needed to accurately develop and optimize new energy saving solutions, while also considering the ...

The base station's average energy consumption during a certain time period has been estimated. A range of optimization approaches, namely PSO, ABC, and GA, have been ...

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