

Title: Communication 5g base station data query

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What is a 5G base station?

It plays a central role in enabling wireless communication between user devices (such as smartphones, IoT devices, etc.) and the core network. The base station in a 5G network is designed to provide high data rates, low latency, massive device connectivity, and improved energy efficiency compared to its predecessors.

Is there a real-time 5G production network dataset?

To the best of our knowledge, this is the first publicly available dataset that contains throughput, channel and context information for 5G networks. To supplement our real-time 5G production network dataset, we also provide a 5G large scale multi-cell ns-3 simulation framework.

What are the advantages of a 5G base station?

Massive MIMO: The use of a large number of antennas allows the base station to serve multiple users simultaneously by forming multiple beams and spatially multiplexing signals. **Modulation Techniques:** 5G base stations support advanced modulation schemes, such as 256-QAM (Quadrature Amplitude Modulation), to achieve higher data rates.

What is a 5G trace dataset?

In this work, we present a 5G trace dataset collected from a major Irish mobile operator. The dataset is generated from two mobility patterns (static and car), and across two application patterns (video streaming and file download). The dataset is composed of client-side cellular key performance indicators (KPIs) comprised of channel-related metr...

In this paper, we summarize the following conclusions obtained by different scholars in different application scenarios by querying the relevant literature on rational planning of network ...

BSs play a vital role in providing coverage and capacity by using different frequency bands adapting to diverse communication needs. The choice of a specific frequency band can impact ...

The construction of the information management concept of inspection report is realized, and a set of solutions that can be implemented on the ground is provided to improve the efficiency of base station ...

With wireless communication standards such as LTE and 5G, the emphasis on higher data rates and spectral efficiency has driven the wireless original equipment manufacturers (OEMs) ...

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A 5G base station, also known as a gNodeB (gNB), is a critical component of a 5G network infrastructure. It plays a central role in enabling wireless communication between user ...

In this study, we developed a stochastic model to analyse the information and communication interaction between a base station and a set of subscribers in a 5G cluster with ...

It features detailed analyses and mathematical models for estimating essential 5G parameters, as well as MATLAB live scripts for quick and accurate computations.

Fifth generation mobile communications technology (5G) is meant to deliver higher peak data speeds, ultra-low latency, increased reliability, massive network capacity, increased availability, and a more ...

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