

The proposed 5G base station throughput simulation and measurement. The proposed 5G base station throughput simulation is depicted uplink data rate (Mbps), downlink data rate ...

To address these challenges, this paper constructs a multi-objective base station site selection model that simultaneously minimizes costs, maximizes coverage contributions, and ...

The telecommunications industry is investing heavily in 5G infrastructure, including small cells, to enhance coverage and capacity. 5G users are expected to increase significantly in the coming years, ...

This paper discusses the site optimization technology of mobile communication network, especially in the aspects of enhancing coverage and optimizing base station layout.

Base station analysis helps telecom providers make informed decisions about where to place new cells or upgrade existing ones. By analyzing traffic patterns, signal strength, and coverage ...

In this paper, based on the GNSS observation data of the 5G smart communication base station, the quality of the original GNSS observation data of the 5G smart communication base ...

Based on factors such as base station construction cost, signal coverage, and Euclidean distance between base stations, this paper constructs a multi-objective planning and location model...

Robust growth stems from governments turning spectrum auctions into infrastructure stimulus, operators upgrading to Open-RAN, and enterprises seeking ultra-reliable low-latency ...

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 ...

The proposed capacity model and control methods are evaluated using a case study of a two-machine test system with 10,000 real 5G base stations, demonstrating the effectiveness of the ...

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