

Probability of communicating with a green base station

Is there a height difference between base station ASE and UE?

In general, there exists a height difference between a BS and a UE in practical networks. It is common to utilize antenna downtilt to adjust the direction of the vertical antenna network performance. This paper focuses on investigating the relationship between the base station ASE.

Does antenna downtilt affect base station density?

networks. It is common to utilize antenna downtilt to adjust the direction of the vertical antenna network performance. This paper focuses on investigating the relationship between the base station ASE. The analytical results of the coverage probability and the ASE are derived, and we find base station density.

Does antenna downtilt change coverage probability?

The antenna downtilt does not change the trend of the coverage probability, i.e., it first increases and then decreases to zero as BS density increases. The coverage probability performance with the optimal antenna downtilt is always better than that without antenna downtilt.

What are the parameters for 3GPP case 1?

According to , we adopt the following parameters for 3GPP Case 1: $d_1 = 300\text{m}$, $3:75$, $AL = 10$ $10:38$, $ANL = 10$ $14:54$, $PB = 24\text{dBm}$, $PN = 2$, $NL = 95\text{dBm}$ (including a noise figure of 9 dB at the receivers).

The exact blocking probability in such overflow loss systems can be obtained by solving a set of steady-state equations for a multi-dimensional Markov process, with each ...

As the network operators need to deploy their base stations to support the peak mobile data traffic, it is inevitable that during a major portion of the day a large number of the base stations ...

A. Service Blocking Probability Service blocking probability is the probability that busy. As we evaluate the metric over a long enough time (e.g., 1 hour), it can be obtained by the Erlang's ...

Using renewable energy system in powering cellular base stations (BSs) has been widely accepted as a promising avenue to reduce and optimize energy consumption and ...

In recent years, green wireless communication has received much attention of industrial and academic communities due to its ability to create eco-friendly power efficient ...

By considering the mutual overflow effect between BSs, the newly proposed method is verified by extensive and statistically reliable simulation experiments to significantly improve ...

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Energy-efficient green solutions are not only beneficial for the environment but also help to reduce the energy expenditure of the investors. Since base stations (BSs) of wireless ...

Cellular base stations powered by renewable energy sources such as solar power have emerged as one of the promising solutions to these issues.

In this paper, to minimize the on-grid energy cost in a large-scale green cellular network, we jointly design the optimal base station (BS) ON/OFF operation policy and the on ...

In this paper, we propose a novel probability aware genetic algorithm for base station ON/OFF strategy in green communications. Our contributions mainly lie in two folds.

Based on the above definitions, we define the coverage probability as a probability that a receiver's signal-to-interference-plus-noise ratio (SINR) is above a per-designated ...

Here, the blocking probability is equivalent to the probability that a connection is rejected for admission because of the need to meet the application QoS requirements.

As a result, green communication is a critical requirement. We looked at a variety of strategies for power optimization in the impending 5G network in this article.

Therefore, we formulate a novel nonlinear programming (NLP) model for the green dynamic BS planning (GDBP) problem to find the best possible BS topology which minimizes ...

Step 1/2 To find the probability that fewer than 2485 messages reach the base station, we need to calculate the cumulative probability of the number of messages reaching the base station ...

This enables a large number of portable transceivers (e.g., mobile phones, pagers, etc.) to communicate with each other and with fixed transceivers and telephones anywhere in the ...

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