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700MHz power generation capacity 5G base station power consumption



Overview

Today we see that a major part of energy consumption in mobile networks comes from the radio base station sites and that the consumption is stable. We can also see that even in densely deployed netw.

Is 5G base station power consumption accurate?

esan@huawei.com Abstract—The energy consumption of the fifth generation (5G) of mobile networks is one of the major concerns of the telecom industry. However, there is not currently an accurate and tractable approach to evaluate 5G base stations (BSs) power consumption. In this article, we pr.

Can machine learning predict energy consumption for 5g/4g radio base stations?

To further develop energy modelling methodology and attempt to answer the questions presented in the previous section, different machine learning algorithm's ability to predict energy consumption is investigated for 5G/4G radio base stations.

Does a balanced dataset improve energy prediction of 5G base stations?

For energy prediction of 5G base stations, this thesis finds that using a more balanced dataset, in terms of the number of samples for each product, has a positive impact for the ANN and the Gradient Boosted Trees model while the linear regression performs worse.

Does 5G configuration affect base station capacity?

In this study, we mainly focused on the commercial 5G non-standalone networks, 2 and the configurations (transmit and receive antennas, spectrum frequency and bandwidth) defined in this part has a decisive impact on base station capacity (see Eq.1).

What are the components of a 5G network?

Communication networks are generally composed of three key parts, core network, bearer network, and radio access network. Compared with early

communication networks, 5G networks will require more antennas, greater bandwidth and higher base station density (Alsharif and Nordin, 2017).

Which frequency bands will play a role in 5G deployment in the UK?

The first argues that 700 MHz and 26 GHz frequency bands will play an important role in 5G deployment in the UK, which enables base stations to meet short- and long-term demand. In order to accelerate the 5G development, the launch of the two spectrum resources should be actively promoted.

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