

Hybrid Energy 5G Base Station Power Consumption





Overview

Is 5G base station power consumption accurate?

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 a power consumption model drive the optimisation of greener 5G?

curacy of our proposed model indicates that it may be a more viable tool to drive the optimisation of greener 5G (and beyond) networks.

CONCLUSIONS In this paper, we presented a novel power consumption model for realistic 5G AAUs, which builds on.

Is there a power consumption model for realistic 5G AAUs?

s.VI. CONCLUSIONS In this paper, we presented a novel power consumption model for realistic 5G AAUs, which builds on large data collection campaign. At first, we proposed an ANN architecture, which allows modelling mu.

Are 5G networks more energy efficient than 4G networks?

, and networking paradigms, with the corresponding societal benefits. However, the energy consumption of the new 5G network deployments is concerning. Deployed 5G networks have been estimated to be about 4 more energy efficient than 4G ones. Nonetheless, their energy consumption is around 3 larger, due to the larger number



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