Communication green base station delay is high

Base stations contribute to around 60% of the power consumption in cellular networks. Thus powering base stations by renewable energy is one of the promising solutions for addressing this problem and ...

In today"s 5G era, the energy efficiency (EE) of cellular base stations is crucial for sustainable communication. Recognizing this, Mobile Network Operators are actively prioritizing EE for both ...

This research paper provides an exhaustive analysis of green communication strategies in 5G and next-generation networks, covering energy-efficient technologies, resource management, renewable ...

Article: Dynamic Base Station Switching-On/Off Strategies for Green Cellular Networks

Due to cost constraints, the BSs cannot be over-provisioned beyond a certain degree and thus they require additional effort for managing the green energy available to them, specifically during the bad ...

In this survey, we first present facts and figures that highlight the importance of green mobile networking, and then review existing green cellular networking research with particular focus on techniques that ...

To tackle these challenges, cloud-based cellular architectures have been proposed where virtual base stations (VBSs) play a key role. VBSs bring further energy savings but also demands a new energy ...

In this paper, we take initial steps towards a performance exposure system at the base station using a data-driven approach for predicting performance violations in terms of RTT, as ...

Instead of having a single Base Station (BS) for a larger area,cellular network deploys a number of small cell base stations (SBS). The advantage of such a network is that SBSs consumes ...

In this paper, we perform the validation for some of the key parameters in the MIMO channel, such as the power delay profile and the Doppler spectrum spread, within a multi-probe ...

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