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Title: Telecom Italia 5G Base Station AI Energy Saving Project

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To assist in these efforts, we are exploring the potential of using artificial intelligence (AI) techniques to recommend energy-efficient configuration settings for network ...

Defining functionalities specifically targeted to save energy, e.g. commands to reduce/turn off the power of less used/unused base stations ...

This work proposes a reinforcement learning (RL) model based on the Proximal Policy Optimization (PPO) algorithm to optimize traffic steering and energy efficiency. The ...

For the energy-saving effect of communication base stations, scholars have carried out in-depth research work and achieved good results.

In this paper, a framework is developed to study the impact of different power model assumptions on energy saving in a 5G separation architecture comprising high power ...

Jul 26, 2021 · This paper introduces the basic energy-saving technology of 5G base station, and puts forward the intelligent energy-saving solutions based on artificial intelligence (AI) and big ...

This paper introduces the basic energy-saving technology of 5G base station, and puts forward the intelligent energy-saving solutions based on artificial intell

The participants are required to develop a model that estimates the energy consumed by different base station products, taking into consideration the ...

Smart Energy Saving of 5G Base Station: Based on AI and other emerging technologies to forecast and optimize the management of 5G wireless network energy consumption

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When the symbol shut down function is turned on, when there is no user data transmission in the downlink symbol, the base station equipment can achieve the purpose of energy saving by ...

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