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Title: 5g base station intelligent power saving

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This article first proposes a dynamic base station switching framework based on deep reinforcement learning (DRL), which optimizes the power consumption of switching BSs.

In order to find a better model of energy saving for 5G base stations to reduce energy consumption, this paper proposes an intelligent energy saving strategy re

First, the energy saving methods for 5G base stations are briefly described. Then, the energy-saving network elements are introduced to dynamically and uniformly manage the ...

The traditional power-saving effect evaluation scheme of Active Antenna Unit (AAU) is complicated, leading to errors in the final evaluation results possibly. This paper ...

In response to the current widespread issue of high energy consumption in 5G base stations, this article conducts overall design, hardware design, and software design of the base station ...

This technical report explores how network energy saving technologies that have emerged since the 4G era, such as carrier shutdown, channel shutdown, symbol shutdown etc., can be ...

To further explore the energy-saving potential of 5 G base stations, this paper proposes an energy-saving operation model for 5 G base stations that incorporates ...

However, the substantial energy consumption of 5G BSs remains a critical challenge hindering the further development of 5G networks. This study investigates the ...

This Supplement examines energy-saving technology for fifth generation (5G) base stations (BSs).

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This article identifies energy-saving potential of the fifth generation (5G) Radio Access Network, and describes main energy ...

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