

Title: Base station power management control strategy

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Aiming at the problem of mobile data traffic surge in 5G networks, this paper proposes an effective solution combining massive multiple-input multiple-output techniques with Ultra-Dense ...

This article presents a comprehensive energy management control strategy for an off-grid solar system based on a photovoltaic (PV) and battery storage complementary structure.

In this blog post, we will explore various strategies and techniques to optimize the power management of a TETRA base station. Before delving into optimization strategies, it is essential to understand the ...

This paper proposed a multi-agent reinforcement learning based power control strategy for base stations in UDN. The method initially modeled system energy consumption with EE and SE as ...

**Abstract:** With the maturity and large-scale deployment of 5G technology, the proportion of energy consumption of base stations in the smart grid is increasing, and there is an urgent need to reduce ...

In this paper, we propose a novel model-free approach that combines the soft actor-critic method and supervised learning concept to solve real-world problems, formulating them as POMDPs.

To enhance system efficiency and establish green wireless communication systems, this paper investigates base station sleeping and power allocation strategy based on deep reinforcement ...

This paper addresses wireless resource management challenges in 5G heterogeneous cellular networks with network slicing, developing optimization models to maximize user QoS and control energy ...

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