

In this article, a robust RL-based multicells sleeping model called graph deep deterministic policy gradient (GDDPG) is developed for handling highly complex communication scenarios. Besides, we ...

Research on low-carbon energy technologies for communication sites: in 2024, China Mobile advanced research on low-carbon energy technologies, updating and refining standards for ...

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 paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network (ADN) and constructs a description ...

However, the design of a green mobile network requires the dimensioning of the energy harvesting and storage systems through the estimation of the network's energy demand. Therefore, ...

Therefore, this chapter aims to provide an overview of green 5G base stations, exploring their construction in China, their environmental impact, and the various factors and ...

Jan 9, 2023 SCOPE This specification sets out the minimum performance requirements for base station and repeater equipment (hereafter referred to as "the equipment") for use in the 3G ?

These systems and standards have played a decisive guiding role on the management of BS EMR, and will promote the coordinated development of mobile communication industry and the ...

Base stations are required to enable mobile phone communication, including calls and data transfer. They consist of different electronic components and antennas and can be located on masts, on ...

This paper discusses green base stations in terms of system architecture, base station form, power saving technologies, and green technology applications. It explores effective ways of ...

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