

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 first propose a ...

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, this paper develops ...

Cellular base stations powered by renewable energy sources such as solar power have emerged as one of the promising solutions to these issues. This article presents an overview of the state-of-the-art in the design and ...

The aim of this study is to identify the green mobile telecommunication base station design practices as adopted by leading cases, four cases were analyzed; Ericsson, ZTE, Huawei, and Bharti.

The present document describes the general aspects and principles relating to the Technical Specifications for the GSM MS-BSS interface. The following documents contain provisions which, through reference in this ...

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 ?

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 incorporate ...

An improved base station power system model is proposed in this paper, which takes into consideration the behavior of converters. And through this, a multi-faceted assessment criterion ...

The 5G NR standard allows more components to switch off or go to sleep when the base station is in idle mode and requires far fewer transmissions of always-on signaling transmissions.

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