

Title: Communication green base station design

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5G base station design is crucial for the advancement of telecommunications technology. Current challenges in energy efficiency include high power consumption and heat ...

We review the architecture of the BS and the power consumption model, and then summarize the trends in green cellular network research over the past decade.

Recognizing this, Mobile Network Operators are actively prioritizing EE for both network maintenance and environmental stewardship in future cellular networks. The paper aims to ...

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. ...

This book serves as a one-stop reference for key concepts and design techniques for energy-efficient communications and networking and provides information essential for the design of ...

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 ...

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