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Communication green base station three-proof design



Overview

Are green cellular base stations sustainable?

This study presents an overview of sustainable and green cellular base stations (BSs), which account for most of the energy consumed in cellular networks. 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.

What is the mobile VCE Green Radio Project?

The Mobile VCE Green Radio project aims at developing new green radio architectures and radio techniques to reduce the overall energy consumption.

Who wrote Green radio communication networks?

Hossain, Ekram, 1971- Green radio communication networks / Ekram Hossain, Vijay K. Bhargava, Gerhard P. Fettweis. Includes bibliographical references and index. ISBN 978-1-107-01754-2 (hardback) Wireless communication systems - Environmental aspects. systems - Energy consumption. II. Fettweis, Gerhard P. III. Title.

What are the approaches to power management for wireless base stations?

The authors provide an overview of the existing approaches of power management for wireless base stations, which include base station power control through beamforming, base station assignment based on the dynamic connectivity patterns between mobile units and base stations, smart mode switching, and cooperative relaying.

What is a green communication initiative?

The green communication initiative primarily aims to improve the energy efficiency, reduce the OPEX, and eliminate the GHG emissions of BSs to guarantee their future evolution [2, 3]. Cellular network operators attempt to shift toward green practices using two main approaches.

Are there trade-offs for Green Radio Networks?

With considerations of these issues, the trade-off relations usually deviate from the simple monotonic curves derived from Shannon's formula, which bring a new design philosophy for green radio networks. The authors review the current state of the investigation on these trade-offs and also outline a number of open research issues.

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