

Management of 5G electromagnetic base stations

This review of the scientific literature is developed and presented in order to explore various aspects of energy consumption and thermal management strategies in last-generation ...

The increasing operation expenses (OPEX) of 5G base stations (BS) necessitates the efficient operational management schemes, among which one main approach is to

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 document contains Version 1.0 of the ITU-T Technical Report on "Smart Energy Saving of 5G Base Station: Based on AI and other emerging technologies to forecast and optimize the management of ...

As the new radio (NR) based 5G network is configured to transmit signal blocks for every 20 ms, the proposed algorithm implements withstanding capacity of on or off based energy switching, ...

In this study, a two-step optimal energy management for a 5G macro BS network was developed to coordinate the BSs' on/off states, user allocation, and power transmission among BSs in the network.

This paper comprehensively reviews AI-driven methods applied to 5G network optimization, focusing on resource allocation, traffic management, and network slicing.

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 ...

The scientific and effective management of the impact of electromagnetic radiation (acronym for EMR) from BS on the environment has become one of the important tasks of ...

The present document specifies the applicable requirements, procedures, test conditions, performance assessment and performance criteria for NR base stations and associated ancillary equipment in the ...

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