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Title: Research on communication mechanism between base station and terminal

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Why is communication base station placement important?

Our research addresses the critical intersection of communication and power systems in the era of advanced information technologies. We highlight the strategic importance of communication base station placement, as its optimization is vital for minimizing operational disruptions in energy systems.

What is the access mechanism between EMCs and BSS?

To describe the access mechanism between the EMCs and the BSs, we introduce an $N_{bs} \times N_{mg}$ connection matrix A , where N_{mg} is the EMCs number and N_{bs} is the number of power towers which is also the number of candidate locations for base stations. It is not necessary for all power towers to be selected as communication power sharing towers.

Why are power systems and communication systems increasingly coupled?

Therefore, power systems and communication systems are increasingly coupled. A power system supplies energy, and a communication system meets the demand for information exchange. A BS is the main intermediary between a communication network and a power network.

How do BS-relay stations work?

The algorithm takes into account network throughput and coverage to achieve BS-Relay Station deployment. From the perspective of energy and the environment, the power that a BS consumes is proportional to the maximum region that the BS can serve. Cost minimization is an issue that needs to be considered in BS construction.

The embodiment of the invention provides a communication method, a base station and a terminal device.

From the micro-perspective, this paper studies a base station sleeping mechanism using the connection relationship between users and BSs as the basis for modeling.

Our study introduces a communications and power coordination planning (CPCP) model that encompasses both distributed energy resources and base stations to improve communication ...

We discuss the distance estimation between the base station and user terminal in wireless communications

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using multi-carrier signal. In this paper, we propose a

For example, only omnidirectional antenna pattern is assumed at the terminal, and perfect sectoring antenna pattern is assumed at the base station, while the impact of practical antenna ...

In the communication power supply field, base station interruptions may occur due to sudden natural disasters or unstable power supplies. This ...

In the communication power supply field, base station interruptions may occur due to sudden natural disasters or unstable power supplies. This work studies the optimization of battery ...

mutual interference model of multiple ISAC base stations, which consists of communication and radar sensing related interference. Moreover, we propose a joint optimization ...

Abstract: With the maturity and large-scale deployment of 5G technology, the proportion of energy consumption of base stations in the smart grid is increasing, and there is an urgent need to ...

Most of the current research is based on the performance of the base station (BS) itself or the operation mode of the communication operator without considering the users' needs and signal ...

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