

Base station communication scenario





Overview

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.

What is a distributed collaborative optimization approach for 5G base stations?

In this paper, a distributed collaborative optimization approach is proposed for power distribution and communication networks with 5G base stations. Firstly, the model of 5G base stations considering communication load demand migration and energy storage dynamic backup is established.

What is a basic scenario compared with a proposed Distributed model?

The Basic Scenario is introduced and compared with the proposed distributed model to show the advantage of the proposed one. Basic Scenario: CO and DSO are not cooperative. CO purchases electricity from the distribution system at a price equivalent to the utility grid, and cannot sell electricity to the distribution system.

What is a collaborative optimal operation model of 5G base stations?

Afterward, a collaborative optimal operation model of power distribution and communication networks is designed to fully explore the operation flexibility of 5G base stations, and then an improved distributed algorithm based on the ADMM is developed to achieve the collaborative optimization equilibrium.



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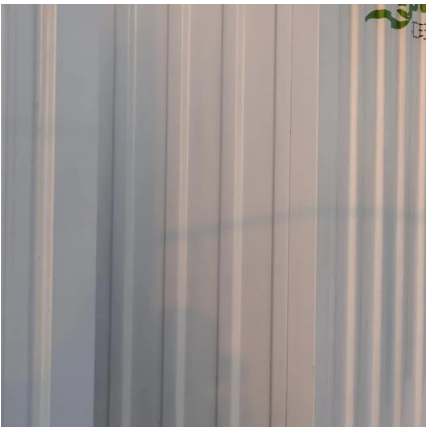
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