

Optimal Base Station Site





Overview

How to determine the optimal location of a flying base station?

A Fuzzy Candidate Point Selection method was also developed to determine the optimal location of the flying base station. Parvaresh et al. proposed an algorithm based on Actor-Critic Deep Q-Learning for deployment of UAV base stations in 3-D space, aiming to maximize the throughput of the network, i.e., the total user data rate.

How to optimize base station layout?

Moreover, we propose a dynamically adjusted quantum genetic algorithm (DAQGA) to optimize base station layout, with coverage and construction cost as objective functions. A signal reception strength metric is introduced to evaluate the effectiveness of the optimal layout.

What is the optimal balance in base station deployment?

This method achieves an optimal balance in base station deployment when coverage and cost weights are set at 0.7 and 0.3, respectively. Compared to four other algorithms, the proposed improved algorithm shows significant advantages in convergence speed and stability. 1. Introduction.

How does a base station deployment method optimize the base station layout?

The base station deployment method proposed in this study dynamically optimizes the base station layout based on annual environmental change characteristics.



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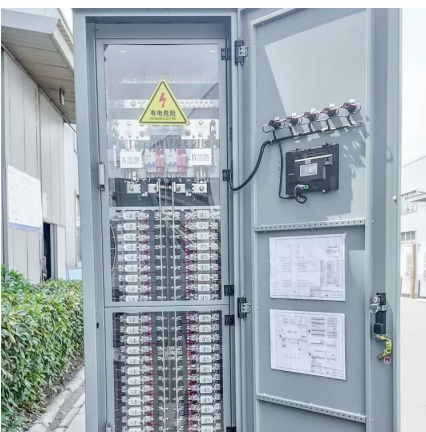
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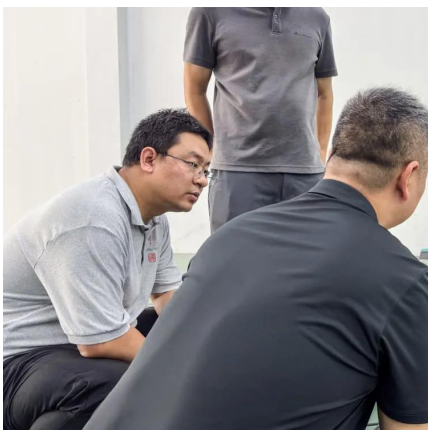
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