

5g micro base station and three-dimensional communication





Overview

Does 5G base station deployment optimization solve the problems of unreasonable deployment?

To solve the problems of unreasonable deployment and high construction costs caused by the rapid increase of the fifth generation (5 G) base stations, this article proposes a 5 G base station deployment optimization method that considers coverage and cost weights for certain areas in Kowloon, Hong Kong.

What is 5G & how does it affect a communication system?

The construction of the 5G network in the communication system can potentially change future life and is one of the most cutting-edge engineering fields today. The 5G base station is the core equipment of the 5G network, and the performance of the base station directly affects the deployment of the 5G network.

What is 5 G Technology?

Introduction With the rapid advancement of global communication technologies, fifth generation (5 G) networks have increasingly become the cornerstone of the information age (e.g., [1, 2]). Driven by 5 G technology, there has been an explosive growth in user numbers, which has raised higher demands for base station deployment.

How a macrocell in 5G network can be improved?

And macrocell in 5G networks may encounter sudden traffic due to dense users caused by sports or celebration activities. To resolve such temporal hotspot, additional network access point has become a new solution for it, and unmanned aerial vehicle equipped with base stations is taken as an effective solution for coverage and capacity improvement.



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Optimization of 5G base station deployment based on

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