
3D communication integrated base station settings

Can unmanned aerial vehicles be a base station for IoT?

Recently,unmanned aerial vehicles (UAVs) have been reported a lot as aerial base stations(BSs) to assist wireless communication in Internet of Things (IoT). However,most results for UAV deployment require uniform access requirements and obstacle-free environment.

Can intelligent algorithm-based base station deployment be based on a real world map?

However, most researchers focusing on intelligent algorithm-based base station deployment consider only two-dimensional map environments, neglecting the impact of real three-dimensional geographic environments on signal propagation and the actual random distribution of users based on real-world streets and other settings.

What is a passive is-integrated base station?

In particular,integrating passive IS into the base station (BS) is a novel solution to enhance the wireless network throughput and coverage,both cost-effectively and energy-efficiently. In this article,we provide an overview of IS-integrated BSs for wireless networks.

How to deploy a base station in a complex network environment?

Previous research has extensively explored strategies for base station deployment using intelligent optimization algorithms. These studies employed advanced algorithms such as the sparrow algorithm, artificial immune system algorithm, and genetic algorithm, aiming to find optimal base station layouts in complex network environments.

Adaptive 3D Placement of Aerial Base Stations via Deep Reinforcement Learning This repository is the implementation of the deep reinforcement learning (DRL) framework for multi-UAV 3D placement ...

Deploying uncrewed aerial vehicles (UAVs) as aerial base stations (BSs) to assist terrestrial connectivity has drawn significant attention in recent years. Alongside other UAV ...

This article investigates a communication system assisted by multiple UAV-mounted base stations (BSs), aiming to minimize the number of required UAVs and to improve ...

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Channel theory is a fundamental theory of wireless communications. The sixth generation (6G) and beyond 6G (B6G) wireless communication networks are expected to ...

Learn how to set the base station position automatically or manually, and how to enable RTK

corrections output in both RTCM and CMR formats.

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 ...

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