5g base station three-dimensional communication

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How to plan the best three-dimensional location of the aerial base station according to the users" business needs and service scenarios is a key issue to be solved.

One of the most important component of wireless network coverage in a cellular system is the base station antenna. A base station antenna is used for the transmission and ...

Given the shortcomings in 5 G base station deployment in this article, we propose a three-dimensional (3D) optimization scheme for deploying 5 G base stations at 3.5 GHz in ...

The utility model relates to a microwave radar and millimeter wave communication technology field, concretely relates to three-dimensional radar system of MIMO based on 5G basic station.

In this article, for optimizing the three-dimensional (3D) deployment of aerial-BSs for 5G mmWave networks, a classic deep ...

Recent studies and research have centred on new solutions in different elements and stages to the increasing energy and data rate demands for the fifth generation and ...

In this article, for optimizing the three-dimensional (3D) deployment of aerial-BSs for 5G mmWave networks, a classic deep reinforcement learning (DRL) network which named ...

This paper presents a novel compact low-profile dual-polarization base station antenna (or unit cell) designed for 5G mobile communications, which does not require ...

In this paper, we will analyze 3D beamforming properties and applications in wireless communications based on the physical structure of an array antenna, addressing the 3D beam ...

In this paper, we focus on the upgrade of the existing fifth-generation (5G) cellular network with the introduction of an RIS owning a full-dimensional uniform planar array structure for ...

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