Three-dimensional communication 5G base station

Oct 12, 2022 · With the development of 5G technology, a convenient and fast emer-gency communication solution is needed when the local ground base station is unavailable for disaster.

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 deep Q ...

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 additional baffles.

This paper discusses the site optimization technology of mobile communication network, especially in the aspects of enhancing coverage and optimizing base station layout.

We select suitable candidate locations for building base stations on the ground and rooftop, and set restrictions on the height of base station towers. The use of existing base station ...

We coupled heuristic algorithm with GIS to maximize the service coverage of 5G base stations. A service coverage model is designed to spatially explicit simulate the propagation of 5G ...

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.

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 outdoor ...

In this paper, a metamaterial-inspired flat beamsteering antenna for 5G applications is presented. The antenna, designed to operate in the 3.6 GHz at 5G frequency bands, presents an ...

In this context, 3D VC technology (3D two-phase temperature equalization technology), as an innovative thermal management technology, provides a solution for 5G base stations.

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