SOLAR PRO.

Number of 5G base stations for three-dimensional communication

We determine the minimum number of MRRUs and mRRUs that can be installed in each area while meeting coverage and user traffic requirements. This will ensure adequate broadband low-latency ...

A three-dimensional and efficiently connected emergency medical management model using fifth generation mobile communication technology (5G) was established to improve the efficiency and ...

In particular, in contrast to 4G localization, which requires several synchronized base stations (BSs), in 5G mmWave, a single BS can be sufficient to obtain a location fix in 3D.

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 ...

In order to meet the demand for higher spectrum efficiency in 5G systems, more antennas can be deployed at base stations (BS) to increase capacity, which is referred to as massive MIMO in academia.

In Section 4, we have a discussion on the base station selection strategy to get the minimum number of wireless communication base stations for 3D location. In Section 5, the ...

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 ...

This work introduces a robust and generalizable deep reinforcement learning (DRL)-driven approach for UAV network deployment in extreme environments, offering critical insights for ...

In this paper, a GNSS/5G integrated three-dimensional positioning scheme based on D2D communication is proposed, where the time of arrival (TOA) and received signal strength (RSS) ...

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