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Three-dimensional communication small base station

Overview

Can a 3D base station be used in next generation cellular networks?

IEEE Efficient 3-D placement of an aerial base station in next generation cellular networks. Paper presented at: 2016 IEEE International Conference on Communications (ICC).

What is a 3D placement of unmanned aerial vehicle base station?

A 3D placement of unmanned aerial vehicle base station based on multi-population genetic algorithm for maximizing users with different QoS requirements. Paper presented at: 2018 IEEE 18th International Conference on Communication Technology (ICCT). IEEE.

Can drone base stations be 3D placed in wireless cellular networks?

On the number and 3D placement of drone base stations in wireless cellular networks. Paper presented at: 2016 IEEE 84th Vehicular Technology Conference (VTC-Fall). IEEE A 3D placement of unmanned aerial vehicle base station based on multi-population genetic algorithm for maximizing users with different QoS requirements.

Can a base station serve users spanned in a sphere?

However, in our case, the base station has to serve users in space. Hence, we propose to extend the circles to the third dimension so that the resultant spherical cellular structure covers the entire 3D user space. Hence, in this case, a BS serves the users spanned in a sphere. This can be considered as a macro-cell.

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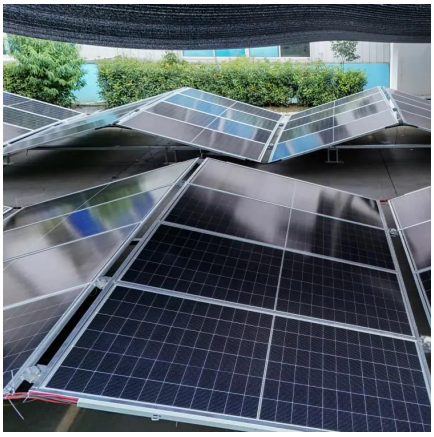
Three-dimensional positioning of wireless communication base station

Request PDF , On Mar 1, 2017, Xiaodong Chang and others published Three-dimensional positioning of wireless communication base station , Find, read and cite all the research you ...

Efficient three-dimensional deployment of ...

Jul 23, 2023 · UAVs can be used as flying base stations without an infrastructure to improve coverage, capacity, line-of-sight (LoS) ...

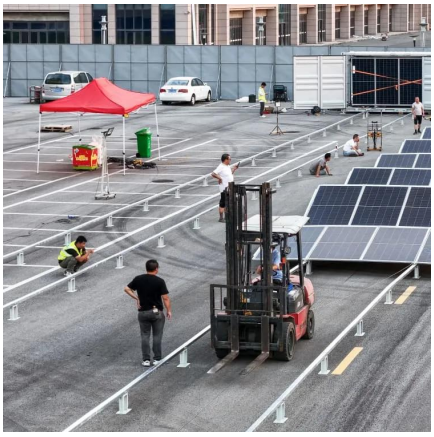


Adaptive Multi-Scale Bidirectional TD3 Algorithm for Layout

Nov 18, 2025 · Klaine et al. [52] proposed a distributed reinforcement learning (Q-learning)-based method for intelligent UAV small base station positioning to dynamically optimize the three ...

Three-dimensional wireless positioning method based ...

Sep 22, 2019 · Abstract: Aiming at the problem that the indoor three-dimensional positioning algorithm is complex and the accuracy is not high, this paper proposes a three-dimensional ...



[A 3D Indoor Positioning Method of Wireless Network ...]

Apr 5, 2024 · Most existing indoor localization methods build their models in 2-dimensional space and try to avoid the in uence of multipath. We propose a method to fl realize 3-dimensional ...

Three-dimensional positioning of wireless communication base station

Oct 2, 2017 · We have studied Chan-Taylor two-dimensional positioning algorithm and propose an innovative Chan-Taylor three-dimensional positioning algorithm. And we apply it to the indoor ...

[Cooperative 3D Beamforming for Small-Cell and Cell ...]

Jan 23, 2023 · Abstract--Three dimensional (3D) resource reuse is an impor-tant design requirement for the prospective sixth generation (6G) wireless communication systems. ...

3-D Positioning and Resource Allocation for Multi-UAV ...

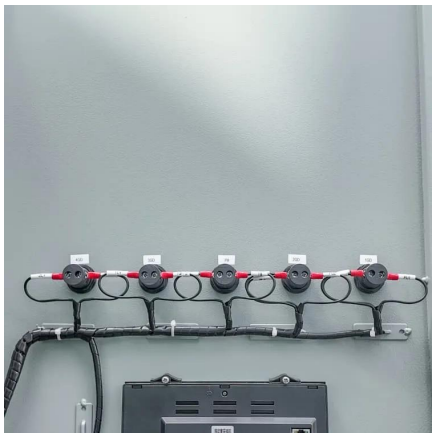
Jan 23, 2023 · N recent years, unmanned aerial vehicle (UAV)-assisted communication systems have at-tracted increasing attention for supporting the seamless coverage in the beyond fifth ...

Adaptive 3D Placement of Multiple UAV-Mounted Base Stations ...

Apr 4, 2025 · Uncrewed Aerial Vehicle-mounted Base Stations (UAV-BSs) have been envisioned as a promising solution to enable high-quality services in next-generation mobile networks. ...

UAV-assisted small base station ON-OFF switching in 6G ...

Sep 1, 2025 · The emergence of 6th Generation (6G) cellular networks presents an opportunity to redefine Key Performance Indicators (KPIs) necessary for high-quality communications in the ...



Efficient three-dimensional deployment of multiple ...

Jul 23, 2023 · UAVs can be used as flying base stations without an infrastructure to improve coverage, capacity, line-of-sight (LoS) connection, and rate performance in wireless ...

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