



GermanSolarZA

Three-dimensional communication bidding for small base stations





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 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 a fixed base station deliver a high-reliable and low-latency communication capacity?

However, achieving the ultra-reliable and low-latency communication capacity promised by 6G is not possible with fixed base stations alone. In particular, environments such as densely populated areas, disaster areas, rural areas, and hard-to-reach areas are among the scenarios where fixed infrastructures are inadequate.



Three-dimensional communication bidding for small base stations



[Three-Dimensional Deployment Optimization ...](#)

We propose a novel systematic approach for the deployment optimization of unmanned aerial vehicles (UAVs). In this context, this study focuses on enhancing the coverage of UAV-mounted 6G mobile base ...

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[linhhoang-ex/uav-bs-placement-drl](#)

This repository is the implementation of the deep reinforcement learning (DRL) framework for multi-UAV 3D placement optimization proposed in the paper Adaptive 3D Placement of Multiple ...

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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 communication. Furthermore, UAVs ...



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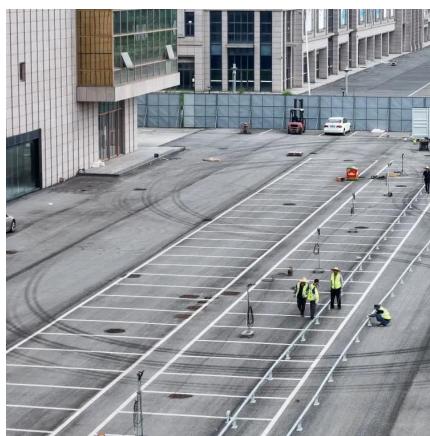
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[Efficient three-dimensional deployment of multiple ...](#)

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

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. ...

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