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Title: Three-dimensional communication small base station

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Can a 3D aerial base station be placed in a cellular network?

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 Efficient 3-D placement of an aerial base station in next generation cellular networks.

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).

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.

Will drone base station technology play a significant role in mobile communication networks?

All these studies indicate that drone base station technology will play a significant role in the future of mobile communication networks. Therefore, research activities in this area continue to increase. 2. Technical Background of UAV Deployment Optimization and Base Station Communication 2.1. General Structure of UAVs

We propose a novel systematic approach for the deployment optimization of unmanned aerial vehicles (UAVs). In this context, this study focuses on enhancing the ...

The suggested mathematical formulation determines the minimum number of required UAVs, their 3-D positions, and the best user association strategy. The proposed model also includes ...

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

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 ...

Section 3 elaborates on the three-dimensional base station communication model, including the principles of terrain generation, signal coverage description, base station ...

A three-dimensional model of the radio links formation between a base station (BS) of a mobile communication system and a ground user terminal with signal relaying through an unmanned ...

In this section, we provide simulation results to evaluate the performance of the proposed joint 3-D positioning and resource allocation scheme for multi-UAV communication networks aided by ...

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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 ...

In this paper, the dynamic deployment of multiple UAV-BSs in complex urban scenario is studied with the objective of enhancing the overall average transmission rate.

This article investigates a communication system assisted by multiple UAV-mounted base stations (BSs), aiming to minimize the number of required UAVs and to improve the coverage rate by...

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