Three-dimensional communication is to build base stations

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 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 ...

To extend the coverage of traditional terrestrial communication networks and serve more diverse application scenarios, employing unmanned aerial vehicles (UAV) as aerial base stations has ...

To tackle the influence of building obstructions, a binary channel model is adopted that classifies communication links between users and DBSs as either Line-of-Sight (LoS) or Non-line-of-Sight (NLoS).

In this article, we present a comprehensive tutorial on 3D location optimization of Drone-BSs. We first introduce UAV-assisted wireless networks along with their use cases and associated ...

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 ...

This tutorial provides key guidelines on how to analyze, optimize, and design UAV-based wireless communication systems on the basis of 3D deployment, performance analysis, channel ...

Our presented method enables the ground base station (GBS) to collaborate with many UAVs while optimizing the number of served users and considering the influence of obstructing ...

In this paper, we study an UAV base station (UBS) assisted cellular network that consists of a single ground macro base station (MBS), multiple UBSs, and multiple ground terminals.

In this study, the spatial deployment challenges of multi-UAV base stations in regions heavily affected by natural disasters are investigated, with the primary

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