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Title: Base station support for 3D communication

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This study explored the deployment of UAV-BSs as flying base stations in urban settings, emphasizing their role in supporting the overloaded terrestrial network, especially in densely ...

They have been used when conventional base stations' capacity is suffering in some extreme cases such as congestion inside the cell or a special event. This paper proposes an efficient ...

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 ...

This paper considers the problem of deploying Unmanned Aerial Vehicle as flying base stations (UAV-BS) to support terrestrial communications networks, where the number of users is ...

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 ...

In this paper, a novel concept of three-dimensional (3D) cellular networks, that integrate drone base stations (drone-BS) and drone users (drone-UEs), is introduced.

DBSs must use wireless links that can leverage free-space optical (FSO) communication [8], cmWave and mmWave channels [9], or sub-6 GHz technologies. As described in [1], a DBS can establish ...

In this work, we explore a low-based airborne relay system capable of dynamically adjusting its position to maintain a reliable communication link with the rocket and forward the signal to a terrestrial base ...

Backhaul solutions include inter-UAV links and connections to terrestrial base stations or satellites, utilizing FSO, cmWave, and mmWave technologies for robust wireless communication.

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 ...

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