Three-dimensional communication home base station

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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 ...

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...

The potential applications of the proposed algorithm include UAV-aided communication after disasters, temporary communication network establishment for difficult-to-reach areas, and ...

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 ...

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 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 three-dimensional ...

With the rapid advancement of unmanned aerial vehicle (UAV) technologies in communication, logistics, and surveillance, UAV aerial base stations (UAV-BSs) are e

In this paper, we propose to deploy multiple unmanned aerial vehicle (UAV) mounted base stations to serve ground users in outdoor environments with obstacles.

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