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Title: Three-dimensional communication base station

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

We have studied Chan-Taylor two-dimensional positioning algorithm and propose an innovative Chan-Taylor three-dimensional positioning algorithm. And we apply it.

In this letter, we study a novel 3D UAV-BS placement that has not been previously addressed. Our work aims to maximize the number of covered users demanding different QoS requirements. We model ...

This paper establishes a three-dimensional base station communication model to address the overall signal coverage rate in special regions with specific coverage requirements, ...

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

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 ...

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

Aerial Vehicle mounted base stations (UAV-BSs) can provide wireless services in a variety of scenarios. In this letter, we propose an optimal placement algorithm for UAV-BSs that maximizes the number of ...

Therefore, in this paper, we proposed a creative 3-D positioning system based on particle swarm optimization (PSO) and an improved Chan algorithm to greatly improve the positioning ...

# Three-dimensional communication base station

Sep 29, 2025 &#183; This paper presents a novel compact low-profile dual-polarization base station antenna (or unit cell) designed for 5G mobile communications, which does not require ...

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