

# Three-dimensional communication small base station



## Overview

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When UAVs function as emergency access points to furnish wireless connectivity in an unoccupied area, the optimization challenge involves minimizing the quantity of UAVs while enhancing their deployment positions and transmission power, taking into account realistic 3D air-to-ground. When UAVs function as emergency access points to furnish wireless connectivity in an unoccupied area, the optimization challenge involves minimizing the quantity of UAVs while enhancing their deployment positions and transmission power, taking into account realistic 3D air-to-ground. In this context, this study focuses on enhancing the coverage of UAV-mounted 6G mobile base stations. The number and placement optimization of UAV-mounted 6G mobile base stations, deployed to support terrestrial base stations during periods of increased population density in a given area, are. enhancement [5]-[7], communication relaying [8]-[10], and data broad-cast/collection [11]-[13]. Compared to conventional terrestrial communications with typically fixed infrastructures, UAV-assisted systems offer new degrees of freedom in the spatial domain to further improve communication. 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 emerged as a viable solution.

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### 3D deployment of UAV-mounted base stations for

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 ...

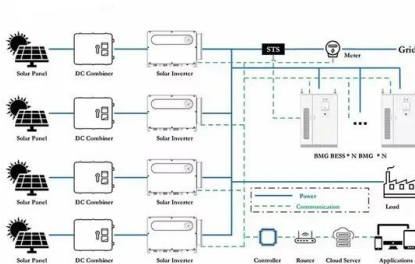
### 3-D Positioning and Resource Allocation for Multi-UAV Base ...

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 ...



### Three-dimensional positioning of wireless communication base station

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 ...



### Efficient three-dimensional deployment of multiple unmanned aerial

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 communication. ...



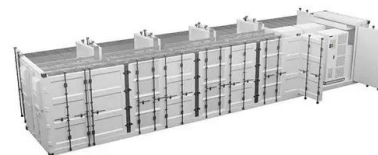
### [Three-dimensional communication home base station](#)

Abstract--This paper studies the problem of wireless communication base station indoor positioning of a three-dimensional, innovation of the Chan-Taylor-3D cooperative localization



### [3-D Positioning and Resource Allocation for Multi-UAV Base Stations](#)

Based on the proposed channel model, we formulate the joint optimization problem of UAV three-dimensional (3-D) positioning and resource allocation, by power allocation, user association, and ...



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### [Dynamic 3-Dimensional Deployment of Unmanned Aerial Vehicle ...](#)

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 ...

### [Three-Dimensional Deployment Optimization of UAVs Using Symbolic ...](#)

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 ...



### [Deployment Strategy of UAV Aerial Base Stations Based on Three](#)

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



### [Three-dimensional wireless positioning method based on...](#)

Abstract: Aiming at the problem that the indoor three-dimensional positioning algorithm is complex and the accuracy is not high, this paper proposes a three-dimensional wireless positioning method based ...



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