

Based on this, an innovative 3D sensing model for ISAC single base stations was proposed, defining the sensing boundaries and providing a foundation for designing the key ...

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

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 ...

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 ...

A UAV deployment and communication transmission model is constructed, and a scheme that decouples the three-dimensional deployment problem into horizontal and vertical height ...

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 ...

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...

Contradiction between the signals of sensing and communication: There is a contradiction between the random communication signal and the structural sensing signal, which brings challenges to ISAC ...

This paper studies the joint three-dimensional (3D) deployment and beamforming problem for a rate-splitting multiple access (RSMA)-enabled unmanned aerial vehicle base ...

This article considers deploying a dual-functional unmanned aerial vehicle (UAV) as both an aerial data collector and aerial anchor node (AN) to assist the ground base stations in providing integrated ...



Three-dimensional integrated base station

communication

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