BLINK SOLAR

Three-dimensional communication is to build base stations

Overview

What are practical use cases for aerial base stations?

Practical use cases for aerial base stations UAVs are highly desirable in today's communication systems due to their agility and mobility, low-cost of implementation and ability to move to higher altitudes to provide LoS communications , .

Can unmanned aerial vehicles be a base station for IoT?

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 UAV deployment require uniform access requirements and obstacle-free environment.

What are the research thrusts of 3D continuous space radio channels?

Then, an in-depth investigation on the four major research thrusts of 3D continuous-space radio channels is provided: 1) channel measurements and modeling, 2) channel capacity analysis, 3) general antenna design, and 4) wireless system design.

Why is a UAV considered an Aerial Base Station?

In this work, the UAV is considered as an aerial base station. The UAVBS coverage advantage is higher than that for the GBS because it has a higher operating altitude. On the one hand, if the altitude of a UAVBS increases, the path loss will increase and the probability of getting LoS links between UAVBS and users will increase.

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

N recent years, unmanned aerial vehicle (UAV)-assisted communication systems have at-tracted increasing attention for supporting the seamless coverage in the beyond fifth ...

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 ...

IEEE JOURNAL ON SELECTED AREAS IN ...

Abstract--The emerging concept of 3D networks, integrating terrestrial, aerial, and space layers, introduces a novel and complex structure characterized by stations relaying ...

A tutorial on AI-powered 3D deployment of drone base stations...

The literature has several high quality surveys that analyze UAV-assisted communication networks from various standpoints. For instance, Zhang et al. in [24] present a ...

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 ...

SoftBank Corp. Aiming to Realize Ubiquitous Connectivity by ...

SoftBank Corp. (TOKYO: 9434) is promoting a "Ubiquitous Transformation" (UTX) for communications--an aim to create a world where people can stay connected anytime and ...

3D Deployment of Unmanned Aerial Vehicle-Base

Unmanned aerial vehicles (UAVs), also

named as drones, have become a modern model to provide a quick wireless communication infrastructure. They have been used when ...

Modeling, Capacity Studies, Antenna and System Designs

Channel theory is a fundamental theory of wireless communications. The sixth generation (6G) and beyond 6G (B6G) wireless communication networks are expected to ...

A three-dimensional positioning method for three base stations ...

A technology of three-dimensional positioning and three base stations, which is applied in the field of positioning and navigation, can solve the problems of large hardware resource ...

3D Deployment of Multiple UAV-Mounted Base Stations for UAV Communications

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 ...

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