
Three-dimensional communication is to build base stations

Can a 3D base station be used in next generation cellular networks?

IEEE Efficient 3-D placement of an aerial base station in next generation cellular networks. Paper presented at: 2016 IEEE International Conference on Communications (ICC).

Can a fixed base station deliver a high-reliable and low-latency communication capacity?

However, achieving the ultra-reliable and low-latency communication capacity promised by 6G is not possible with fixed base stations alone. In particular, environments such as densely populated areas, disaster areas, rural areas, and hard-to-reach areas are among the scenarios where fixed infrastructures are inadequate.

What is a 3D placement of unmanned aerial vehicle base station?

A 3D placement of unmanned aerial vehicle base station based on multi-population genetic algorithm for maximizing users with different QoS requirements. Paper presented at: 2018 IEEE 18th International Conference on Communication Technology (ICCT). IEEE

Will drone base station technology play a significant role in mobile communication networks?

All these studies indicate that drone base station technology will play a significant role in the future of mobile communication networks. Therefore, research activities in this area continue to increase. 2. Technical Background of UAV Deployment Optimization and Base Station Communication 2.1. General Structure of UAVs

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 ...

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 ...

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 ...

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

Base stations are the core of mobile communication, and with the rise of 5G, thermal and energy challenges are increasing. This article explains the definition, structure, ...

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

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 ...

Hello everyone, I think I finally understood the thing about "two times more/less", "twice/half as much", and so on. I made a few sentences. I was wondering if you could let me ...

Large area "air, sky and ground" three-dimensional communication network mainly refers to the use of space satellite systems, helicopters and UAVs, ground base stations for ...

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 ...

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

Hi all, I was wondering what's the difference between "three times" vs "times three". Example: My English teacher was kind enough to let me choose a song for a listening. ...

To address this issue, we introduce a novel distributed Three-Dimensional (3D) deployment approach for UAV-based Base Stations (UAV-BSs) called 3D deployment for ...

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

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

Driven by the intelligent applications of sixth-generation (6G) mobile communication systems such as smart city and autonomous driving, which connect the ...

To extend the coverage of traditional terrestrial communication networks and serve more diverse application scenarios, employing unmanned aerial vehicles (UAV) as aerial base ...

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 ...

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