

To address these issues, this paper explores the use of the UAV as an aerial base station (ABS) and intelligent reflecting surface (IRS) for enhancing vehicular communication networks.

We propose a mechanism to deploy UAVs as aerial base stations to provide network connectivity, QoS support, and reliable communication in a flash crowd and ...

To address these challenges, cellular base stations installed on Unmanned Aerial Vehicles (UAVs) can be an alternative solution. UAVs provide quick deployment capability and ...

The unmanned aerial vehicle features with high flexibility and easy deployment. It could be used as an air base station and provide fast ...

In a nutshell, this article provides key applications, challenges, and the technology used for the design and analysis of unmanned aerial vehicles as base stations. Unmanned ...

The invention provides an air-ground ad hoc network communication system based on an unmanned aerial vehicle base station, and belongs to the field of air-ground ad hoc network ...

The integration of ABSs or FANETs into wireless cellular networks as aerial communication platforms brings new network infrastructure design possibilities and challenging aspects to ...

In this paper, we propose a hybrid system composed of tethered and untethered UAVs.

An Unmanned Aerial Base Station (UABS), also known as a UAV-mounted base station, is a flying antenna system that serves as a hub between the backhaul network and the ...

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Abstract and Figures Unmanned aerial vehicles mounted base stations (UAV-BSs) are expected to become one of the significant ...

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 ...

an object of the present invention is to provide a base station device, a notification method, a notification

Unmanned base station communication system

system, an unmanned aircraft, and a communication terminal capable of notifying ...

The hardware can, depending on the specific requirements of the unmanned vehicle operations, range from a tablet for the handheld ground control ...

In a nutshell, this article provides key applications, challenges, and the technology used for the design and analysis of unmanned aerial vehicles ...

A method and system for protecting low-altitude airspace against unauthorized unmanned aerial vehicles by using a base station having communication and jamming functions. The present ...

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