Unmanned base station communication system

OverviewUnmanned aerial vehicles in wireless communicationsRegulationsArchitectures overviewPlacement considerationsSee alsoUAV were born only for military aims. Thanks to the evolution of the manufacturing technology, nowadays, it is one of the candidate solutions to provide on-demand connectivity in 5G network systems. UAVs, more commonly identified as drones, are small aircraft or balloons that can be controlled in a remote manner by a radio control/RF module or using intelligent on-board systems that make the dron...

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 aerial vehicles ...

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 emergency situations.

This paper studies the feasibility of using UAVs as flying base station in the assistance of wireless communication in a scenario where there is a sudden demand for data transmission due to ...

In our paper, we propose a UAV base station (BS) localization method under aerial global positioning system (GPS) jammed environments, where the UAV-BS simultaneously provides communication ...

We develop a prototype of a proposed mobile base station and test its operation in an outdoor environment. The experimental results provide a sufficient data rate to make an independent mobile ...

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

Thanks to its flexibility and cost-effectiveness, an unmanned aerial vehicle-mounted base station (UAV-BS) is a promising technology for the upcoming 6G wireless networks.

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

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 conventional ...

In the following section, we present an overview of the communication networks, communication data links, navigation and surveillance options considered or developed in our project. The document then ...

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