Mobile unmanned communication base station inverter

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Can unmanned aerial vehicle-mounted mobile base stations improve wireless connectivity?
Abstract--In terrestrial communication networks without fixed infrastructure, unmanned aerial vehicle (UAV)-mounted mobile base stations (MBSs) provide an efficient solution to achieve wireless connectivity.
What is a UAV-mounted mobile base station (MBS)?
In particular, UAV-mounted mobile base stations (MBSs) can be deployed to provide wireless connectivity in areas without infrastructure coverage such as battlefields or disaster scenes.
Can unmanned aerial vehicles be used as flying base stations?
Considering that one of the goals of the future network generations is to provide ubiquitous communication in the most diverse scenarios to achieve high connection coverage, it is foreseen that the use of unmanned aerial vehicles as flying base stations (UAV-BSs) can potentially extend the network and communication range.
What is a UAV based base station?
Unlike terrestrial base stations (BSs), even those mounted on ground vehicles, UAV-mounted MBSs can be deployed in any location and move along any trajectory constrained only by their aeronautical characteristics, in order to cover the ground terminals (GTs) in given area based on their known locations.

Through this review paper, we inform readers of flying base station research, development, and standardization for future mobile and 6G networking.

This paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network (ADN) and constructs a description ...

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.

For A2G communication, an UAV as an air base station provides sub-channels of OFDMA to mobile users. Similar to the A2 A communication, the power consumption of the A2G link ...

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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 particular, UAV-mounted mobile base stations (MBSs) can be deployed to provide wireless connectivity in areas without infrastructure coverage such as battlefields or disaster scenes.

Mobile aerial base stations (BSs) for ultra-reliable device-centric downlink communication are proposed in this paper. BSs are carried on unmanned aerial vehicles (UAVs) that travel and transmit data to ...

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