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Title: Principle of unmanned base station communication system

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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 ...

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 ...

In this paper, we will first introduce the functions and application scenarios of UAV communication, then discuss the current challenges and related technical research, and finally ...

Overall, the research in UAV wireless communication systems has shown great potential for future applications in various fields such as aerial photography, disaster ...

To address this issue, we introduce a novel distributed 3-D deployment approach for UAV-based base stations (UAV-BSs) called 3-D deployment for effective communication ...

We develop a prototype of a proposed mobile base station and test its operation in an outdoor environment. The experimental results ...

Between drones the medium is air; hence, there exist air links for communication among the AirBS. Communication between the AirBSs can take place either in a centralized ...

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

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 ...

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OverviewUnmanned aerial vehicles in wireless communicationsRegulationsArchitectures overviewPlacement considerationsSee also

Overall, the research in UAV wireless communication systems has shown great potential for future applications in various fields such as ...

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