Unmanned base station communication system design

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

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.

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

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 ...

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

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 ...

In general, the GCS is a terrestrial base station that serves as the command hub for unmanned aerial vehicles [13]. Through the GCS, tasks are assigned to the UAV, which then ...

The considerable energy consumption overhead involved in flying or hovering UAVs makes them less appealing for green wireless communications. Therefore, in this work, we ...

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

This study focuses on the design of three critical elements: the hardware architecture, the software ground control station (GCS), and the firmware tasks within the UAV ...

Section 2 introduces the design description of the UAV-BS cellular network system deployment and describes the dimensioning of the UAV-BS cellular network system.

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 ...

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