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Unmanned emergency communication command base station

Overview

Are unmanned aerial vehicles a viable alternative to traditional base stations?

Abstract: In the space–air–ground integrated emergency communication network, unmanned aerial vehicles (UAVs) have become ideal candidates for expanding traditional base stations through the air–ground Line of Sight (LoS) link, providing more comprehensive and efficient support for emergency communication.

What is a UAV base station?

Learn more. When ground communication infrastructure within a region cannot be used for some reason, deploying unmanned aerial vehicle (UAV)-mounted base stations is undoubtedly the most effective way to provide communication services.

What is a suburban emergency communication network?

System model As illustrated in , a suburban emergency communication network is deployed in response to an earthquake disaster, establishing crucial communication links between the disaster zone and the external environment. UAV is used as temporary base stations.

How does a UAV-based emergency communication system work?

To address these issues, we propose a UAV-based emergency communication system with a HybridComm architecture. This architecture optimizes the UAV’s aerial position, uplink and downlink time slot ratio, and bandwidth allocation based on feedback from transmission rates and channel losses, ensuring optimal resource allocation.

Unmanned emergency communication command base station

An Independent UAV-Based Mobile Base Station

In disaster scenarios, e.g., earthquakes, tsunamis, and wildfires, communication infrastructure often becomes severely damaged. To rapidly restore damaged communication ...

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QoE-driven multi-UAV deployment scheme for emergency communication

The deployment problem for providing communication services has attracted a lot of attentions [2, 3]. Zhang et al. in [4] studied a

(PDF) Rapid Deployment Method for Multi ...

The collaborative deployment of multiple UAVs is a crucial issue in UAV-supported disaster emergency communication networks, as utilizing these UAVs as air base stations can greatly assist in

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Maximizing coverage in UAV-based emergency communication ...

Abstract In the optimization of traditional Unmanned Aerial Vehicle (UAV) emergency communication systems in response to natural disasters, existing studies often ...

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cellular UAV-assisted communication system in ...

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China Mobile Tethered UAV High-altitude ...

In recent years, with the development of communication technology, computer technology, microelectronics technology and the huge impact of large-scale natural disasters, the demand for emergency communication ...

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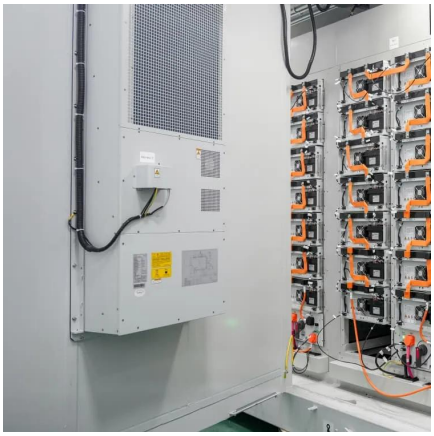

China Mobile Tethered UAV High-altitude Base Station and Emergency

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Joint Trajectory Planning and Communication Design for ...

In the space-air-ground integrated emergency communication network, unmanned aerial vehicles (UAVs) have become ideal candidates for expanding traditional base stations ...

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Smart Unmanned Aerial Vehicles as base stations placement to improve

Abstract Future mobile communication networks need Unmanned Aerial Vehicles as Base Stations (UAVasBSs) with the fast-moving and long-term hovering capabilities to ...

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An Independent UAV-Based Mobile Base Station

In disaster scenarios, e.g., earthquakes, tsunamis, and wildfires, communication infrastructure often becomes severely damaged. To rapidly restore damaged communication systems, we ...

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Rapid Deployment Method for Multi-Scene UAV Base Stations ...

The collaborative deployment of multiple UAVs is a crucial issue in UAV-supported disaster emergency communication networks, as utilizing these UAVs as air base stations can ...

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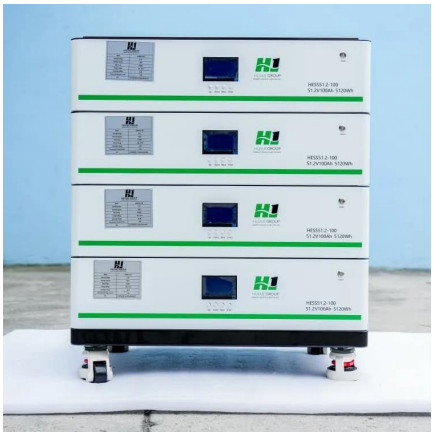

QoE-driven multi-UAV deployment scheme ...

The deployment problem for providing communication services has attracted a lot of attentions [2, 3]. Zhang et al. in [4] studied a cellular UAV-assisted communication system in which one UAV jointly ...

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Cache-Enabled UAV Emergency Communication Networks: ...

The unmanned aerial vehicles (UAVs) are able to assist damaged cellular networks as aerial base stations (ABSs) due to their flexibility and affordability. This paper ...

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