

Mobile emergency communication high altitude base station

What is a high altitude platform station?

This concept is known under the designation High Altitude Platform Stations (HAPS) as IMT base stations, or HIBS. By using the same spectrum as already identified for IMT and where deployments already exist today, HIBS can extend the operator's coverage area and benefit from the already existing device ecosystem.

Do drone base stations provide cellular networks in disaster areas?

Abstract: Drone base stations can provide cellular networks in areas that have lost coverage due to disasters. To serve the maximum number of users in the disaster area without a priori user distribution information, we proposed a 'sweep and search' algorithm to find the optimal deployment of drone base stations.

How drones can be used to build high-altitude base stations?

With recent advancements in drone technology, constructing the high-altitude base stations by utilizing drones to carry the communication load for cellular networks has attracted considerable attention.

What if a BS is not covered by a base station?

In the disaster area, MSs have not been covered by any operational base station will continuously perform an IMSI attaching procedure: scan the broadcast signal from cellular BSs, establish connections with the BS immediately after they received the broadcast signal.

While HAPS' fixed services connect houses in remote locations or provide backhaul links to base stations, HAPS' mobile services would connect directly to the user equipment, operating as a ...

The UAV emergency high-altitude base station can cover up to 50 square kilometers and provide instant messaging for 5,400 mobile phone users at the same time. It can quickly take off to 100 ...

Please hold tight, your translation is being processed.

HIBS operate in the stratosphere, usually at an altitude of about 20 km. HIBS may be airplanes, airships or balloons, typically unmanned. When compared to a terrestrial network, a HIBS ...

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

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High-altitude platform station (HAPS) as International Mobile Telecommunications (IMT) base station

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(HIBS) has been attracting the attention of aerospace and ...

Uav technology is developing rapidly, and high-altitude base stations using drones as liftoff platforms have a wide range of flexible and mobile coverage, which can be widely used in ...

Mean-while, ground transportations are often blocked in such emergency situations, which prevents emergency comm-unication vehicles from getting close to the disaster area. In this ...

SoftBank has successfully trialed using a blimp as a floating cell-tower base station, using an antenna developed for high altitude platforms. SoftBank Corp. this week ...

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 ...

Nairaland Forum / Science/Technology / China Completes The World's First Drone 5G High-altitude Base Station Emergency (461 Views) Aircar: Futuristic Flying Car Takes To ...

The UAV emergency high-altitude base station can cover up to 50 square kilometers and provide instant messaging for 5,400 mobile phone users at the ...

Huawei has recently completed the first 5G base station emergency communication test via drone, it covered 6.5KM when flying at 200m altitude. ...

China Mobile #TetheredUAV High-altitude Base Station and Emergency Communication System In recent years, with the development of communication technology, computer technology, ...

High Altitude Platform Station as IMT Base Stations (HIBS) are essentially HAPS platforms (see Figs. 1 & 2), defined and operating within the context of a station in the mobile ...

Based on the above disaster scenarios, we used UAV to carry 5G portable base station devices and construct a temporary 5G high-altitude emergency base station. This ...

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 ...

An ITU-R "work in progress" report will describe spectrum needs, usage and deployment scenarios, and technical and operational ...

China Mobile UAV Emergency Telecommunications High-altitude Base Station System is an innovative emergency communication system that combines communication equipment and ...

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When humans face major natural disasters, accidents, and public health emergencies, emergency communications are essential. One company combines drones with small communication ...

Mobile communication via high-altitude platforms operating in the stratosphere is an idea that has been on the table for decades. In the past few years, however, with recent ...

ZTE has developed a robust and flexible base station solution that can use satellite or wireless technologies to provide a backhaul connection to both a dedicated core network for the ...

1w China Mobile Tethered UAV High-altitude Base Station and Emergency Communication System
<https://lnkd/d7SSXgYJ> Fortem Technologies 6,174 ...

In this work, we present a quantitative network performance comparison between a fixed base station and a movable base station, when a group of first responders is moving in a ...

In situations where communication is crucial for saving lives, high-altitude base stations can offer emergency communications in disaster zones. As a result, drone-mounted base stations ...

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