

telecommunications infrastructure deployment. By combining rapid deployment capabilities, ...

As an emergency communication platform, the tethered UAV can completely solve the problem of paralysis of the mobile communication base station ...

Jun 3, 2025 · Focusing on the aerial segment, we investigate the performance of Aerial LTE base stations (AeNB) deployed on airborne platforms in terms of achievable cell coverage and ...

As an emergency communication platform, the tethered UAV can completely solve the problem of paralysis of the mobile communication base station during disasters. It can be equipped with ...

Sep 8, 2023 · An emergency communication system is necessary for first responders, who need to enter areas with no network coverage or damaged network infrastructure due to natural or ...

Nov 21, 2019 · Having reliable telecommunication systems in the immediate aftermath of a catastrophic event makes a huge difference in the ...

Jun 14, 2014 · Disaster relief operations rely on the rapid deployment of wireless network architectures to provide emergency communications. Future emergency networks will consist ...

Feb 22, 2025 · The proposed system includes PS-LTE functionalities, mission-critical push-to-talk, proximity-based services, and isolated E ...

For instance: In 2015, Tropical Cyclone Pam caused 24 deaths in Vanuatu; it also caused base station towers to collapse, so satellite phones and VHF ...

Sep 27, 2023 · The collaborative deployment of multiple UAVs is a crucial issue in UAV-supported disaster emergency communication networks, as ...

Mar 14, 2023 · In recent years, major natural disasters and public safety accidents have frequently occurred worldwide. In order to deal with ...

Nov 8, 2025 · The base station carried by the movable platform can react to changes in the network in real time, allowing more flexibility and introducing a new degree of freedom for the ...

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

Apr 15, 2024 · Recently, the concept of base stations on low altitude platforms (LAPs)

attracted researchers" attention for emergency communication and the digital divide in under-developed ...

Mar 21, 2025 · Access to reliable communications services is a key factor in any emergency situation. ASTRI has succeeded in producing a mobile base station that allows for cost ...

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