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Reasons for post-disaster communication green base station reconstruction

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Overview

Why is communication network reconstruction important in geological disaster recovery?

The reconstruction of the communication network is a precondition for the smooth implementation of rescue and disaster recovery after geological disasters.

Why do we need a post-disaster emergency communication network reconstruction system?

Because 72 h after the disaster is particularly important time period for rescue work (), it is necessary to design and develop a portable, easy to build, and stable post-disaster emergency communication network reconstruction system.

Can post-disaster wireless communication networks serve the underserved in disaster recovery?

In the context of 6G, airborne and spaceborne networks offer hope in disaster recovery to serve the underserved and to be resilient in calamities. Therefore, our paper reviews the state-of-the-art literature on post-disaster wireless communication networks and provides insights for the future establishment of such networks.

How can post-disaster communications be adapted to a large-scale disaster?

In particular, we first give an overview of the works investigating the general procedures and strategies for facing any large-scale disaster. Then, we present technological solutions for post-disaster communications, such as the recovery of the terrestrial infrastructure, installing aerial networks, and using spaceborne networks.

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We also explore the essential technologies for disaster response, focusing on real-time communications and energy solutions that support rapid deployment and coordination in ...

When such disasters damage communication base stations and cause post-disaster information interruption, MYUAVCommunication relay tethered UAV system can ...

Sustainable post-disaster reconstruction is essential for mitigating vulnerabilities, enhancing resilience, and fostering long-term community recovery. This paper systematically ...

Post-disaster reconstruction plays a vital role in restoring communities devastated by natural or human-made disasters. This study explores strategies and approaches for ...

When Nature Strikes: Can Our Networks Survive? As typhoons batter coastal cities and wildfires engulf telecom infrastructure, one urgent question emerges: How can communication base ...

The number of disasters has increased over the past decade where these calamities significantly affect the functionality of communication networks. In the context of 6G, ...

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Post-disaster reconstruction of the built environment represents a key global challenge that looks set to remain for the foreseeable future, but it also offers significant ...

In post-disaster scenarios where infrastructure is extensively damaged, rapid deployment of reliable communication networks is critical for effective rescue operations. ...

The reconstruction of the communication network is a precondition for the smooth implementation of rescue and disaster recovery after geological disasters. Although traditional ...

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AbstractB. ContributionsC. OrganizationII. WIRELESS TECHNOLOGIESB. Installation of Aerial NetworksD. Important RemarksIII. PHYSICAL LAYER ISSUESF. Important

RemarksIV. NETWORKING LAYER ISSUESA. Integrated Space-Air-Ground ArchitecturesV. PROPOSED USE CASESLAP-TBS.VI. CHALLENGES AND RESEARCH DIRECTIONSA. Modulation and Coding SchemesC. Optimal PlacementVII. CONCLUSIONSThe number of disasters has increased over the past decade where these calamities significantly affect the functionality of communication networks. In the context of 6G, airborne and spaceborne networks offer hope in disaster recovery to serve the underserved and to be resilient in calamities. Therefore, our paper reviews the state-of-the-art liter See more on arxiv ResearchGate

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