

Havana LTE emergency communication base station hybrid energy earthquake relief

With recent technological advances--such as 5G new radio vehicle-to-everything (NR-V2X)--real-time communication, decision-making, and emergency operations can be enhanced ...

The ECS system proposed and simulated in this article consists of an autonomous wireless 4G/LTE base station and a LoRa network utilizing a hybrid IoT communication platform combining LPWAN ...

To this end, this paper provides a comprehensive exploration of the technological solutions and strategies necessary to build and maintain resilient communications networks that can withstand and ...

In the immediate aftermath of a disaster, traditional communication infrastructure is often damaged or overwhelmed, leading to a critical need for resilient, adaptable, and rapidly deployable...

One of the primary tasks for effective disaster relief after a catastrophic earthquake is robust communication. In this paper, we propose a simple logistic method based on two-parameter ...

This project suggests a Satellite-Terrestrial Hybrid Communication Protocol (STHCP) that leverages both satellite and terrestrial technologies to establish the required connectivity in times of crisis.

This paper proposes a Bayesian network method to evaluate the post-earthquake functionality of communication base stations. The method considers the dependence between the ...

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 mobile ...

A hybrid network of LTE and satellites enhances communication resilience during disasters. Current PPDR technologies suffer from limited bandwidth and interoperability issues. LTE is proposed as the ...

5G stations consume significantly more power, requiring hybrid energy systems (solar + batteries + generator). Advanced models integrate wind turbines to enhance grid independence.

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