Post-disaster temporary communication base station inverter

A method to evaluate the post-earthquake functionality of communication base stations using Bayesian network is developed.

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 ...

Digital Twin (DT) technology offers an innovative solution for disaster management and recovery by creating high-fidelity virtual replicas of affected environments. In this article, we propose a DT ...

From pre-disaster hazard inspection to post-disaster structural assessment, UAV is deeply involved in the natural disaster prevention and ...

The problem is embedded in the limited battery capacities of UAVs to mount a base station while hovering around disaster areas for networking services. As such, MESs become a more realistic ...

A post-disaster EV fleet management framework de-signed to sustain and extend the operational availability of cellular communication services by supplying emergency power to BS.

At the disaster site where communication was interrupted, MYUAV provided standardized emergency solutions for paralyzed infrastructure, and a ...

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 ...

lient communications infrastructure is of paramount importance for effective disaster response and recovery. This disaster-resilient infrastructure should also respond to sustainabi.

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