

Can we still communicate if the earthquake base station is disconnected

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Do earthquakes affect communication base stations?

Analyzing and summarizing these observed seismic damages can enhance our understanding of the impairment of communication base stations during earthquakes, providing valuable information for establishing a Bayesian network model for functionality loss.

Do communication base stations perform post-earthquake functionality using Bayesian network?

A method to evaluate the post-earthquake functionality of communication base stations using Bayesian network is developed. The dependence between the equipment and its hosting building structure, and the impact of power outages are considered. The method is validated using seismic damage data from the Ludian Earthquake.

What happens if a Tokyo earthquake hits a base station?

However, as in the case of the Noto Peninsula Earthquake, communication can be disrupted if base stations and other facilities are damaged during a disaster. Even in the event of an earthquake directly beneath the Tokyo metropolitan area, communications will most likely be interrupted by large-scale fires.

How to assess damage to mobile communication facilities during large earthquakes?

Ke et al. proposed a method for assessing damage to mobile communication facilities during large earthquakes. The study analyzed the impact of power outages and evaluated the damage caused by ground motion to base stations using fragility curves.

We would like to further our research on how communication is conducted in various phases of the disaster and link this to the recovery of the people of the Noto Peninsula, as well ...

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

In destructive earthquakes occur, regular communications platform by varying degrees of damage, even completely paralyzed.

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It is easy to see how, with a few developments, satellite service could be an excellent avenue of communication for public warning. An accurate and personalised message ...

Over the last few decades, communication about seismic hazard and risk has drastically changed and improved, thanks in part to ...

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 ...

After the Wenchuan earthquake in 2008, communication facilities in the disaster area were severely damaged, and many mobile base stations stopped service, resulting in ...

In this paper, we propose a simple logistic method based on two-parameter sets of geology and building structure for the failure prediction of the base stations in post-earthquake.

We try to get around this problem by putting the satellite system on a timer: in the winter, the system turns on once a day to transmit data. The seismic station still records data ...

Abstract--During natural disasters, such as earthquakes, a part of the Internet access infrastructure can be damaged, leaving many users disconnected. At the same time, many ...

After the Wenchuan earthquake in 2008, communication facilities in the disaster area were severely damaged, and many mobile ...

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