

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 man-made ...

Enterprise Mass Warning Notification (EMWN) provides the ability to produce, track, and disseminate information through network alerts, beacons, Giant ...

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-efficient, low-latency, and ...

Due to the unpredictability of natural disasters, whenever a catastrophe happens, it is vital that not only emergency rescue teams are ...

At the same time, a large area covering the emergency communication network with ultrashort wave communication of 40km and broadband video communication of 10km is formed among ...

CERT volunteers will be part of a communications network when participating in an emergency response, whether you are serving as a runner or coordinating multiple teams as a Net Control ...

Abstract Wireless personal communication has become necessary part of our daily life. Network operators have established many 5G base stations for most residential areas, but the ...

In this work, we present a quantitative network performance comparison between a fixed base station and a movable base station, when a group of first responders is moving in a ...

Specifically, the proposed method uses deep neural network to represent the backhaul process of base stations, and explores data transmission under high efficiency and low delay.

The standalone 4G LTE Manpack Base Station provides a quick and smart network for voice, data, video, and Position Location for Information Services (PLI) for mounted and dismounted ...

The demand for air-to-ground communication has surged in recent years, underscoring the significance of unmanned aerial vehicles (UAVs) in ...

Disaster relief operations rely on the rapid deployment of wireless network architectures to provide emergency communications. Future emergency networks will consist typically of terrestrial, ...

Challenge The Forestry Bureau is pondering a wireless communication solution for firefighters or other first responders to connect wirelessly in thickly-wooded areas during the emergency ...

Due to the characteristics of flexible deployment, affordable cost, and higher probability of line-of-sight (LoS) communication, the unmanned aerial vehicle (UAV)-based communication network ...

In the world of radio communications, a radio base station plays a vital role in ensuring reliable and seamless communication across a wide area. Whether used in mobile networks, ...

Wireless personal communication has become necessary part of our daily life. Network operators have established many 5G base stations for most residential areas, but the untraversed area ...

We develop a prototype of a proposed mobile base station and test its operation in an outdoor environment. The experimental results provide ...

Abstract--Disaster relief operations rely on the rapid deployment of wireless network architectures to provide emergency communications. Future emergency networks will consist typically of...

For the above reasons, we propose a MultiLayer Emergency Communication Network (ML-ECN) solution based on the combination of space and earth, which combines the ...

Access to reliable communications services is a key factor in any emergency situation. ASTRI has succeeded in producing a mobile base station that allows ...

Enterprise Mass Warning Notification (EMWN) provides the ability to produce, track, and disseminate information through network alerts, beacons, Giant Voice (outdoor speakers), and ...

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 ...

In this paper, a positioning algorithm for DSCs in an emergency situation is proposed. The solution aims at finding the best position of multiple drones in a scenario where the old cellular ...

A "peer-to-peer structure" represented with a mobile communication systems without having any base station; ad hoc communication network technology uses mobile ...

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