Ad-hoc communication base station inverter design

Overview

Based on the SDR platform, the equipment adopts the scheme of FPGA + ADI AD9361+ intrinsic safety circuit, and uses wireless multi-hop, self-organization and strong self-healing ability of wireless mesh network technology to quickly and conveniently form a wireless communication.

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[Construction of Ad-Hoc Public Safety Communications Networks]

In the proposed method, we model the system, express each power consumption mathematically, and optimize the placement of EVs and transmission power. In addition, the results

[AD HOC RADIO BASE STATION, METHOD AND COMPUTER]

As pre-planning of the ad hoc cell may not be possible, and co-operation with existing cellular radio network infrastructure may be minimal, operation of the ad hoc radio base station needs to be

[A mine intrinsically safe AD hoc network base station design]

Aiming at the problem that the underground communication link of the mine is interrupted and the information of rescuers cannot be exchanged after the disaster, a mine intrinsically safe AD hoc

[Cellular traffic forecasting based on inverted transformer for mobile]

Specifically, we first designed an inverted Transformer (iTransformer) model to accurately forecast cellular traffic. The model is capable of effectively capturing both the spatial and temporal

SmartLink580 Fixed Ad Hoc Base Station

SmartLink580 Fixed Ad Hoc Base Station can

provide long-distance wireless service in harsh environments without relying on external network and other communication equipment.

Optimization of Communication Base Station Battery Configuration

In the communication power supply field, base station interruptions may occur due to sudden natural disasters or unstable power supplies. This work studies the optimization of battery

Post-Disaster Communications: Enabling Technologies,

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 Google Patents

US20230300779A1 - Ad hoc radio base station - Google Patents

An ad hoc radio base station and a method for locating a user apparatus are presented.

Construction of Ad-Hoc Public Safety Communications Networks

Numerical results show that the proposed SE-constrained power control scheme can greatly increase the reliability and achievable SE of V2V communications while the achievable sum SE is slightly

Post-Disaster Communications: Enabling Technologies,

about the deployment of ad hoc network architectures in emergency scenarios. Finally, we present several promising research directions, namely backhauling, cache-enabled and intelligent reflective

US20230300779A1

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