
Shipborne emergency communication command base station

What is the current emergency communication command?

The current emergency communication command mainly relies on communication infrastructure and is supplemented by emergency communication vehicles as well as the use of satellite networks, shortwave networks and trunking communication networks to provide the same communication services.

Is there a unified signal processing framework for a ship-based station?

Through the establishment of a channel model that captures the complexities of the maritime environment and the analysis of the dynamic behavior of the ship-based station, this article introduces a unified signal processing framework for this ISAC system.

Which rescue station should be located near the center of the sea?

From the numerical results, we can make several observations. An alternative station close to the center of the sea is more likely chosen as a rescue station so that rescue organizations can distribute emergency supplies more efficiently. For example, Dalian, situated near the center of Bohai Bay, is at level 1, with a proportion of 22.2 %.

What is integrated space-air-ground emergency communication command?

The integrated space-air-ground emergency communication command is designed to use advanced satellite communication technology, aerial unmanned platform communication technology, ground-based self-assembling network technology and public network technology, etc.

Therefore, taking full advantage of shipborne UAVs can have enormous promise for maritime emergency management organizations to achieve faster and cheaper rescue. It is ...

Utilizing AIR developed shipborne KX-15 tethered balloon platform which carries emergency communication payloads of 30kg, and lifts 300 meters over the sea, this ...

Abstract. Utilizing unmanned aerial vehicle (UAV) to carry 5G base stations to build emergency communication networks can flexibly provide stable and reliable wireless ...

In order to meet the increasing demand for delay-sensitive and computing-intensive applications of maritime users, we first propose an integrated satellite-maritime mobile edge ...

Satellite AIS Satellite AIS is capable of receiving shipborne AIS today on existing frequencies. However, since these frequencies are shared with fixed and mobile stations, its ...

AIS base Station - Base stations are provided by an aids to navigation authority to enable the ship- to-shore/shore-to-ship transmission of ...

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 ...

When public mobile network is unavailable at sea, the emergency communication network makes it available for end users to harness LTE base station onboard the balloon to ...

It provides stable, reliable, timely and efficient high-definition video, multi-channel data, clear voice and visual command and dispatch for military communications, anti-terrorism and emergency ...

This research delves into an integrated sensing and communication (ISAC) system, which leverages a ship-based station to simultaneously offer maritime communication ...

Shipborne mobile equipment which is interoperable with all other AIS stations, but, does not meet all the performance standards adopted by IMO. Similar to Class A stations, they ...

This paper first proposed and illustrated the concept, connotation and characteristics of integrated space-air-ground emergency rescue communication command ...

A mobile communication and mobile base station technology, applied in the field of mobile communication systems, can solve the problems of limited coverage, limited signal power, and ...

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