

# EMS consequences of autonomous communication base stations

Advancements in connected apparatus for enhanced emergency response capabilities will see additional communication capabilities, including MCPTT, 4.9 GHz spectrum, and satellite...

However, designing an efficient 3D deployment of ABSs is a considerably complicated problem due to its high degree of freedom and inter-cell interference among ABSs. In this paper, we propose a novel ...

The collaborative deployment of multiple UAVs is a crucial issue in UAV-supported disaster emergency communication networks, as utilizing these UAVs as air base stations can ...

be dual in the ability to be favorable or unfavorable to communication performance. This provides empirical evidence that autonomous RISs can be a promising alternative for practical RISs ...

There are several limitations to the practical implementation of UAVs in different application scenarios. The main critical limitation among UAVs is flight endurance, which is limited due to the limited power ...

Three stations were developed based on an axiomatic design before being investigated, which enable the authors to present analysis linking the cost, complexity, and coverage levels.

Emergency situations such as wildfires, water floods, or even terrorist attacks require continuous communication between the coordination centres, the several on-the-field teams, and their...

Global dependence on the electromagnetic spectrum (EMS) offers increasing opportunities to exploit new attack vectors during operations, but also creates vulnerabilities and ...

We formulate several optimization problems to optimize the quality of service provided by the UAVs, and decentralized algorithms are presented to address these problems. Extensive ...

A possible solution for such scenarios is through the use of mobile cellular base stations that can be quickly deployed in the disaster area. These mobile cells can effectively complement the ...



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