# Evaluation of the capacity of communication base stations



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We jointly study the mobility and the wireless communications of flying base station to analyze its position, channel capacity, and beneficialness (capacity gain) over the stationary ...

This paper studies the performance of Aerial UMTS Long Term Evolution (LTE) base stations in terms of coverage and capacity. Network model relies on appropriate channel model, LTE 3GPP ...

To maximize the network capacity, we formulate an optimization problem by jointly designing the rotation angles of all 6DMA surfaces based on the a priori known users" spatial distribution.

A method to evaluate the post-earthquake functionality of communication base stations using Bayesian network is developed.

In this study, we study on the downlink indoor coverage performance of unmanned air vehicle (UAV) base stations. We consider a probabilistic expression for air-to-ground (ATG) path loss, and a ...

In this context, Aerial-Terrestrial communication networks are intended to provide temporal large coverage with the provision of broadband services at the disaster area. This paper ...

In this method, the geological structure, geographic location of the base station, and the category of the base station in the parameter variables are objectively available when evaluating the ...

How to measure the resiliency of a base station deployment is an important consideration for network planners and operators.

Based on the real operation data of post-earthquake communication base stations, this paper proposes a logistic method of parameter grouping, which can effectively evaluate the failure...

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