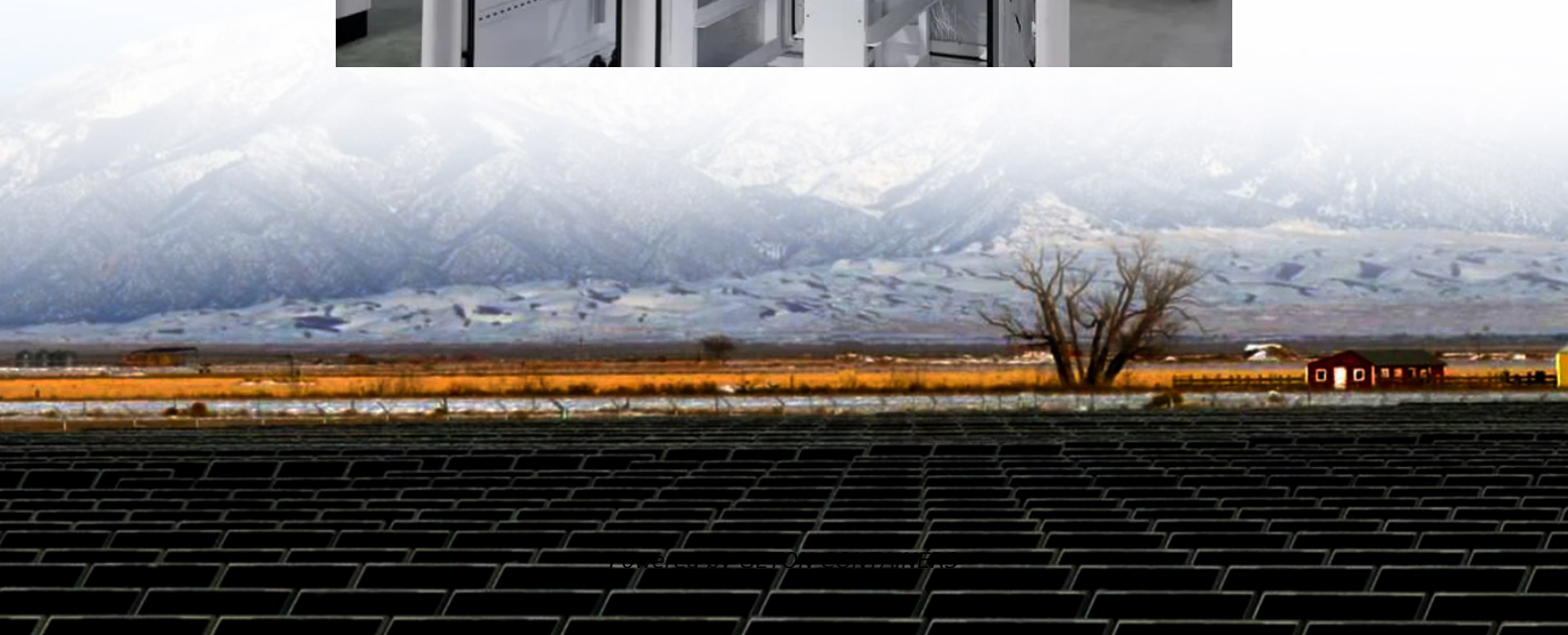


# **Base station outdoor road test experiment analysis**





## Overview

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What are the specific solutions for a base station?

The specific solutions are as follows: (1) objective function: the base station needs to maximize the needs of the business volume, the base station must have a high standard after planning, and the cost of establishing the base station should be the lowest.

What are the constraints of a base station?

(2) Constraints: Euclidean distance between base stations, whether the base station covers the test point, whether the coverage reaches the standard, etc.  
(3) Output: the specific planning point of the base station, the simulation diagram of the base station coverage test point.

How to choose a base station?

The selection of base stations should comprehensively consider various indicators, such as sharing rate, planning accuracy rate, and planning depth. This is a multi-objective planning problem.

Why is base station site selection important?

Especially with the development and promotion of national 5G technology, the construction of 5G base stations is an important part of the future communication infrastructure. Therefore, base station site selection will become an important work of base station construction.



## Base station outdoor road test experiment analysis

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### From Lab to Road Test

For our experiment, we used one-hertz GPS and GLONASS data from the RGP TLMF station (at the National Center for Meteorological Research in Toulouse). Precise clock ...

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### From Lab to Road Test

For our experiment, we used one-hertz GPS and GLONASS data from the RGP TLMF station (at the National Center for Meteorological Research in Toulouse). Precise clock and ephemeris data from ESA are ...

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[RBMC stations used in the experiment with different baseline](#)  
...

The MGLA base station, which corresponds to the location where the test was conducted, is identified by pinpoint 1. from publication: Performance Analysis of Relative GPS Positioning for ...

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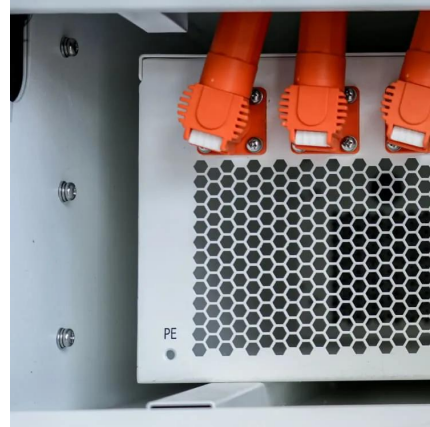


[Optimizing the ultra-dense 5G base stations in urban outdoor](#)  
...

The developed model was applied to search for the optimal solutions in 5G cellular network planning for an urban outdoor area in Wuhan, China. The optimal solutions and ...



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[Outdoor Experimental Trials of 28 GHz Band Base Station ...](#)

5G introduces massive multiple-input multiple-output (M-MIMO) with analog beamforming (BF) in millimeter-wave (mmW) bands. 5G Evolution (5GE), which will be ...

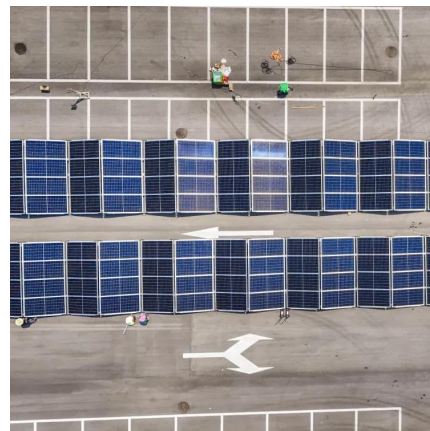
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[1: route used for the road test \(experiment\)](#)





Segment base on the input from the GPS monitor stations. The Control Segment monitors the growth in parameter errors by comparing the broadcast values to the best current estimates ...

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Finally, the simulation experiment results are analyzed and it is concluded that the multi-objective 5G base station planning model combined with genetic algorithm has high ...

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