

Three-dimensional communication small base station





Overview

Can a 3D base station be used in next generation cellular networks?

IEEE Efficient 3-D placement of an aerial base station in next generation cellular networks. Paper presented at: 2016 IEEE International Conference on Communications (ICC).

What is a 3D placement of unmanned aerial vehicle base station?

A 3D placement of unmanned aerial vehicle base station based on multi-population genetic algorithm for maximizing users with different QoS requirements. Paper presented at: 2018 IEEE 18th International Conference on Communication Technology (ICCT). IEEE.

Can drone base stations be 3D placed in wireless cellular networks?

On the number and 3D placement of drone base stations in wireless cellular networks. Paper presented at: 2016 IEEE 84th Vehicular Technology Conference (VTC-Fall). IEEE A 3D placement of unmanned aerial vehicle base station based on multi-population genetic algorithm for maximizing users with different QoS requirements.

Can a base station serve users spanned in a sphere?

However, in our case, the base station has to serve users in space. Hence, we propose to extend the circles to the third dimension so that the resultant spherical cellular structure covers the entire 3D user space. Hence, in this case, a BS serves the users spanned in a sphere. This can be considered as a macro-cell.



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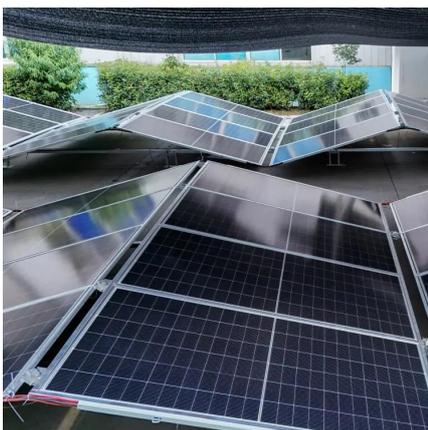


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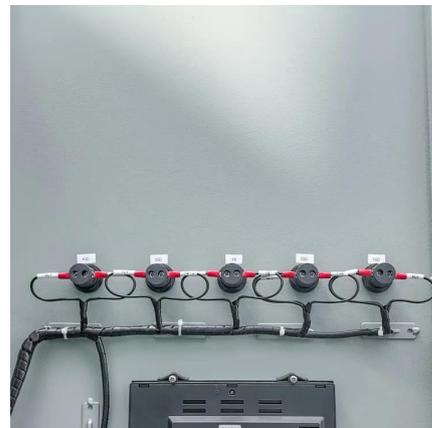


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