

What is the use of the three-dimensional communication integrated base station





Overview

ISAC integrates sensing and communication through various techniques, including waveform design, Time-Division Multiplexing (TDM), and hardware resource sharing, ultimately enhancing overall system performance while reducing costs [6]. 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).

Why is BS a good G-Distance sensing system?

g-distance sensing: The power of BS is high, owning excellent performance in long-distance sensing. Mutual benefit between sensing and communication: The sensing function assists communication in beamforming and beam alignment. Communication assists sensing in providing the pr.

Can a fixed base station deliver a high-reliable and low-latency communication capacity?

However, achieving the ultra-reliable and low-latency communication capacity promised by 6G is not possible with fixed base stations alone. In particular, environments such as densely populated areas, disaster areas, rural areas, and hard-to-reach areas are among the scenarios where fixed infrastructures are inadequate.

What are practical use cases for aerial base stations?

Practical use cases for aerial base stations UAVs are highly desirable in today's communication systems due to their agility and mobility, low-cost of implementation and ability to move to higher altitudes to provide LoS communications , .



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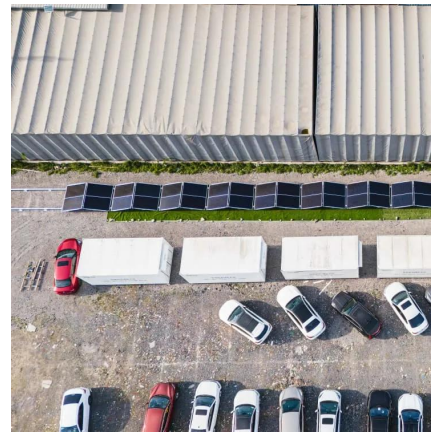


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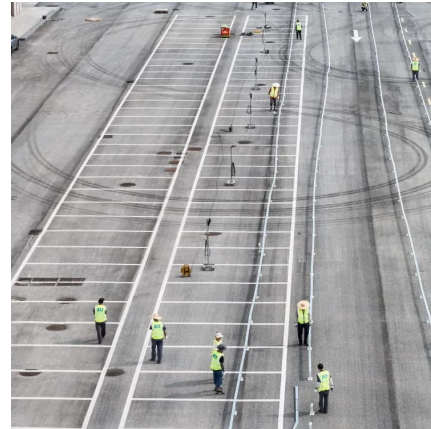


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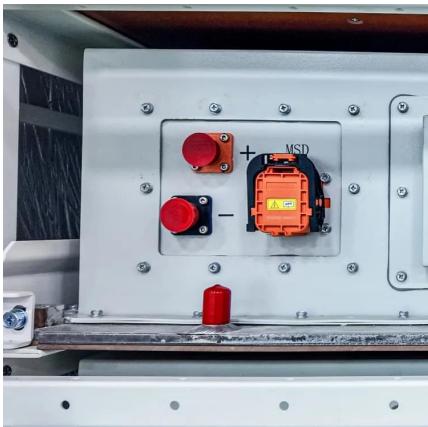


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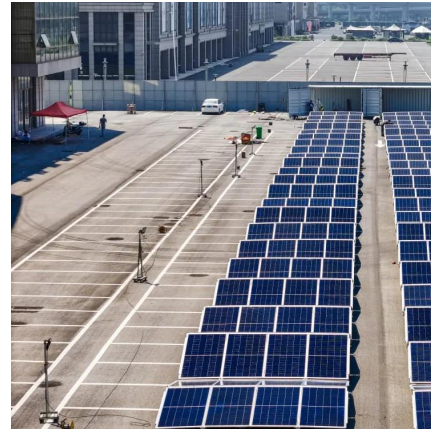
[Three-dimensional aerial base station location for sudden ...](#)

May 22, 2020 · How to plan the best three-dimensional location of the aerial base station according to the users' business needs and service scenarios is a key issue to be solved.



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[Three-dimensional wireless positioning method based ...](#)

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