

Communication perception integrated base station





Overview

What is integrated communication and sensing integrated networks air interface?

Communication and sensing integrated networks air interface key technologies are proposed. In the resource allocation, an actor-critic reinforcement learning framework is used to divide the wireless resources. An integrated communication and sensing system (called E-HFVN) is developed, the performance indicators are tested.

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 radar detection and perception improve communication service quality?

Conclusion & future work This paper provides a 6G integrated sensing and communications application scenario to demonstrate how radar detection and perception results can automatically assist in integrated waveform design and improve communication service quality.

How does CAs work in 6G perceptive networks?

This paper investigates a novel communication-assisted sensing (CAS) system within 6G perceptive networks, where the base station actively senses the targets through device-free wireless sensing and simultaneously transmits the estimated information to end-users.



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Large Model Enabled Embodied Intelligence for 6G Integrated Perception

Abstract The advent of sixth-generation (6G) places intelligence at the core of wireless architecture, fusing perception, communication, and computation into a single closed ...

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[Transmit Beamforming Design for Integrated Communication...](#)

This concern is particularly critical in integrated communication, sensing, and navigation (ICSN) models, where malicious eavesdroppers (Eves) may threaten the system's ...

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[Large Model Enabled Embodied Intelligence for 6G ...](#)

Together, this work positions LAM-enabled IBAs as a practical path toward integrated perception, communication, and computation native, safety-critical 6G systems. ...

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BPFAaC: A radar intelligent perception algorithm in 6G integrated

Despite the fact that the BPFAaC model has achieved significant recognition performance in long-distance ISAC scenarios, integrated base station to communication ...



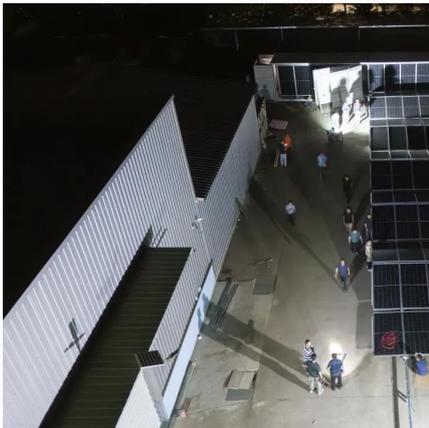
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[E-HFVN: Design and performance test of a communication ...](#)

Abstract Communication and sensing integrated networks (CSINs) refer to the ability of physical digital space perception and ubiquitous intelligent communication at the same time.

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Integrated Sensing and Communication Enabled Multiple Base Stations

Driven by the intelligent applications of sixthgeneration (6G) mobile communication systems such as smart city and autonomous driving, which connect the physical and cyber ...

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[Integrated Sensing and Communication Enabled Sensing](#)

This paper studies the sensing base station (SBS) that has great potential to improve the safety of vehicles and pedestrians on roads. SBS can detect the targets on the ...

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[Communication-Assisted Sensing in 6G Networks , IEEE ...](#)

Exploring the mutual benefit and reciprocity of sensing and communication (S& C) functions is fundamental to realizing deeper integration for integrated sensing and ...

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[Integrated Sensing and Communication enabled ...](#)

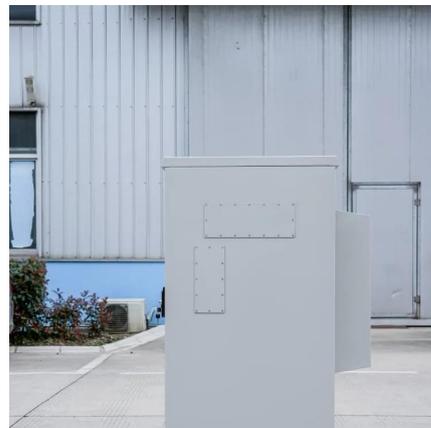
Driven by the intelligent applications of sixth-generation (6G) mobile communication systems such as smart city and au-tonomous driving, which connect the ...

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A Review of Base Station Navigation Technology for Integrated

The main objects of ICAN include independent communication and navigation collaborative systems and integrated communication and navigation systems with institutional ...

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