

Example: A 6G base station transmits a signal that reflects off an object (e.g., a vehicle) and receives the echo, calculating the object's distance ...

Integrated sensing and communication (ISAC) exhibits notable potential for sensing the unmanned aerial vehicles (UAVs), facilitating real-time monitoring of UAV

Contradiction between the signals of sensing and communication: There is a contradiction between the random communication signal and the structural sensing signal, which brings ...

The integrated development of navigation and communication systems has gradually become the mainstream of the development of space-based network information systems. ...

"To what extent the existing research has explored the development of an integrated communication and perception framework that could increase the situational awareness of ...

Abstract The tunnel construction industry faces critical challenges including fragmented communication positioning systems, structural complexity, and deployment ...

the advantages of the integrated sensing and communication (ISAC) technique, this paper puts forward the scheme of the sensing base station (SBS). Different from the traditional RSU, SBS ...

This book focuses on the design, management, and cybersecurity of connected and autonomous vehicles under the umbrella of the Internet of Vehicles. Both principles and ...

This paper investigates a secure multiple-input multiple-output integrated sensing and communication (MIMO ISAC)-enabled untrusted simultaneous wireless information and ...

The limited channel capacity and complex environmental conditions pose significant challenges to effective air-to-ground communication. To tackle this issue, we ...

Integrated CNS (ICNS) is a contemporary concept implying that those systems are provisioned through the same technology stack. ICNS is envisioned to improve service quality, ...

With the support of integrated sensing and communication (ISAC) technology, mobile communication system will integrate the function of wireless sensing, thereby facilitating new ...

The collaborative sensing of multiple Integrated sensing and communication (ISAC) base stations is one of the important technologies to achieve intelligent tran

This paper focuses on the research based on millimeter wave frequency bands, proposes a millimeter wave integrated communication system with enhanced communication ...

The issue of performance trade-offs in integrated base stations for communication and perception is complex due to the vast array of scenarios in wireless communication and ...

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

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

Qualcomm on how integrated sensing and communications enables real-time network optimization and new service opportunities.

In the sixth-generation network, many low-power devices are predicted to be integrated into tasks incorporating communication and sensing. The integrated sensing and ...

Communication and perception integrated positioning system in tunnel construction scenarios June 2025 EURASIP Journal on Wireless Communications and Networking 2025 (1) ...

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 road with ...

The above results meet the performance requirements of communication-perception integration; that is, the E-HFWN system allocates the beams of the communication and ...

For instance, a DT-based V2X system introduced in [134] integrated a 3D virtual urban environment and traffic simulation into an information perception system comprising distributed ...

In this paper, our main consideration is to integrate ISAC and MEC to enable collaborative sensing, communication and computation at the BS. More specifically, the BS ...

Contact us for free full report

Web: <https://zakwlozdi.pl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

