Research on communication and perception integrated base station

The proposed schemes seamlessly integrate both communication and sensing on a shared hardware platform, eliminating the need for additional sensors.

In this article, we propose a radar sensing algorithm, Beta process factor analysis augmented classifier (BPFAaC), for the 6G integrated sensing and communications (ISAC) scenes. ...

ISAC signal design: Towards 6G, ISAC signals are designed based on the signals of mobile communication systems, which include single-carrier signals and multi-carrier signals.

In this article, a comprehensive survey is presented for ICAN technologies toward LEO-enabled 6G networks (LEO-ICAN), including the framework design, system implementation, and key ...

This paper studies the transmit beamforming in a downlink integrated sensing and communication (ISAC) system, where a base station (BS) equipped with a uniform linear array (ULA) ...

This paper argues that large artificial intelligence models (LAMs) can endow base stations with perception, reasoning, and acting capabilities, thus transforming them into intelligent base station ...

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

This article studies the integrated communication perception technology assisted by RIS, including system principles, key technologies, and performance analysis.

This research is not only of great significance to the development of marine science and technology, but also lays a solid foundation for further research and practical application of maritime...

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

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