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Title: Research on communication and perception integrated base station

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This paper studies the transmit beamforming in a downlink integrated sensing and communication (ISAC) system, where a base ...

The proposed schemes seamlessly integrate both communication and sensing on a shared hardware platform, eliminating ...

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

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

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 ...

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

With the networked infrastructures of mobile communication systems, multi-BS cooperative sensing is a natural choice satisfying the requirement of long-range and accurate ...

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 ...

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 ...



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