
Research on communication and perception integrated base station

Can integrated sensing & communication (Isac) base stations be used for collaborative sensing?

Abstract: The collaborative sensing of multiple Integrated sensing and communication (ISAC) base stations is one of the important technologies to achieve intelligent transportation. Interference elimination between ISAC base stations is the prerequisite for realizing collaborative sensing.

What is integrated sensing & communication (Isac)?

Conferences > 2022 IEEE 95th Vehicular Tech... The collaborative sensing of multiple Integrated sensing and communication (ISAC) base stations is one of the important technologies to achieve intelligent transportation. Interference elimination between ISAC base stations is the prerequisite for realizing collaborative sensing.

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.

Can BS transmit beamforming in a downlink integrated sensing and communication system?

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) sends combined information-bearing and dedicated radar signals to perform downlink multiuser communication and radar target sensing simultaneously.

Integrated sensing and communication (ISAC) is a potential technology of the sixth-generation (6G) mobile communication system, which enables communication base station ...

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However, the related research on communication-perception integrated network is in its infancy, there are many difficulties and challenges before the technology is mature and ...

This article proposes an integrated communication, sensing, and computation (ICSAC) framework for 6G to achieve the reciprocity among CSC functions to enhance the ...

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

The main objects of ICAN include independent communication and navigation collaborative

systems and integrated communication and navigation systems with institutional ...

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

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