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Title: Communication and perception integrated base station

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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 cellular base station technology?

This technology enables cellular base stations to provide radar-like sensing functions in addition to the traditional communication capabilities, enabling ranging, angle measurement, and speed measurement of target objects.

Can integrated sensing and communication improve satellite-terrestrial network throughput?

In, the authors investigated the application of integrated sensing and communication in the integrated satellite-terrestrial network. A dynamic resource allocation scheme was proposed for the sensing and communication phases to optimize the network throughput.

In this paper, we investigate time-division based framework for integrated sensing, communication, and computing in integrated satellite-terrestrial networks. We consider a scenario, ...

In the upcoming 6G networks, integrated sensing and communications (ISAC) will be able to provide a performance boost in both perception and wireless connectivity. This paper considers a ...

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 collaborative sensing of multiple Integrated sensing and communication (ISAC) base stations is one of the

important technologies to achieve intelligent transportation. Interference ...

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

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

It delves into UAV communication and location collaboration technology oriented towards base station sensing, with a primary focus on the communication-sensing issues of single ...

This technology enables cellular base stations to provide radar-like sensing functions in addition to the traditional communication capabilities, enabling ranging, angle measurement, and ...

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