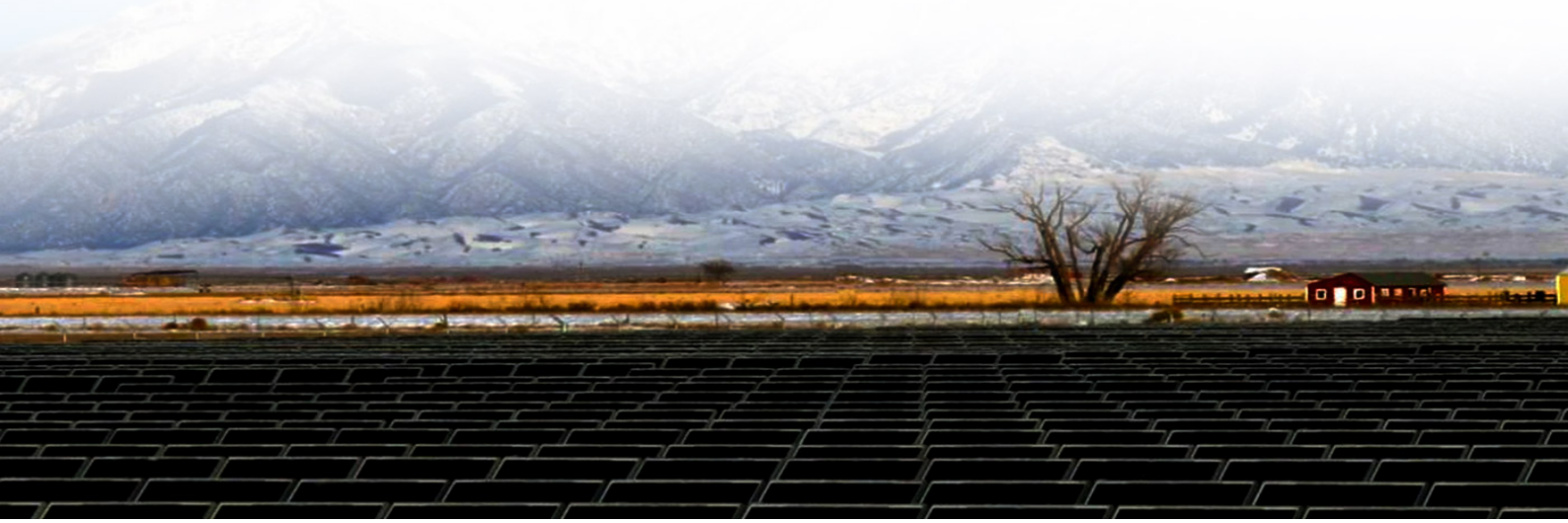
Multi-base station service communication experiment



Overview

In this article, we show by outdoor experimental trials that high-speed communications can be pro-vided over a wide area by (1) using multiple 28 GHz band experimental base stations equipped with digital BF to perform BF by digital signal processing and (2) having those.

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Ss) of 6G by integrating radar sensing and communication in the same hardware and wireless resource. However, with the requirements of long-range and accurate sensing in the applications of smart city and aut nomous driving, the ISAC enabled single BS still has a limitation in the sensing range and.

As part of these studies, we consider the provision of millimeter-wave high-speed communications over a wide area to multiple mobile stations traveling at high speed. In a high-mobility envi-ronment, area construction must be performed over a wide area through the co-operation of multiple base.

With the rapid development of 5G communication technology and the Internet of Things, a large number of new services have emerged on mobile terminal devices, which require low latency and high bandwidth, resulting in an explosive growth of mobile communication traffic. Traditional cloud computing.

To address these limitations, this paper proposes the Multimodal Optimal Base Station Selection Network (MOBS-Net), which integrates multimodal spatial and temporal information to achieve both optimal base station judgment and proactive prediction. The judgment module employs convolutional neural.

In this work, we investigate the performance of a joint sensing and communication (JSC) network consisting of multiple base stations (BSs) that cooperate through a fusion center (FC) to exchange information about the sensed environment while concurrently establishing communication links with a set.

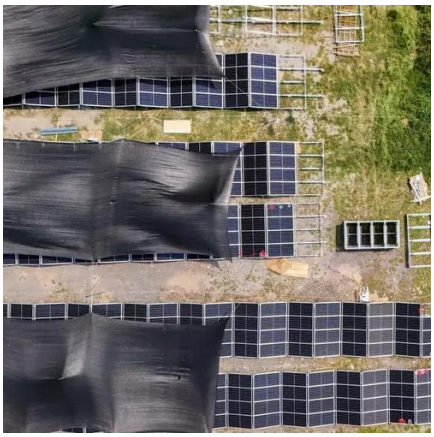
Multi-base station service communication experiment

RIS-Aided Non-Cooperative Multi-Base Station Multi-User ISAC ...

Abstract: Multi-base station (MB) serving multi-user (MU) would be the most important scenario in the integrated sensing and communication (ISAC) scheme. However, removing MB ...

Integrated Sensing and Communication Enabled Multiple Base Stations

Integrated Sensing and Communication Enabled Multiple Base Stations Cooperative Sensing Towards 6G Publisher: IEEE



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1) Base Station Cooperation Experiment To test the effects of base station cooperation, we compared the case of not using base station #2 in Fig. 2 (no base station cooperation) and the ...

Energy-saving control strategy for ultra-dense network base ...

Aiming at the problem of mobile data traffic surge in 5G networks, this paper proposes an effective solution combining massive multiple-input

multiple-output techniques ...

Multi-Base Station Cooperative Sensing with AI-Aided Tracking

Numerical results demonstrated that our framework could provide remarkable sensing performance, achieving an optimal sub-pattern assignment (OSPA) less than 60 cm, ...

Integrated Sensing and Communication Enabled Multiple Base ...

With ISAC enabled multi-BS cooperative sensing (ISAC-MCS), the intelligent infrastructures connecting physical and cyber space can be established, ushering the era of 6G promoting the ...

Integrated Sensing and Communication enabled Multiple ...

The communication mutual interference between multiple BSs: When multiple BSs provide communication services to the UEs in the same area, the UEs will receive multiple downlink ...

Energy-saving control strategy for ultra-dense network base stations

Aiming at the problem of mobile data traffic surge in 5G networks, this paper proposes an effective solution combining massive multiple-input multiple-output techniques ...

Cooperative Beamforming Design for Multi-BS Integrated ...

In this paper, we investigate a cooperative multi-BS ISAC system with multi-target and multi-user. In particular, communication and sensing are performed by multiple BSs with a ...

Integrated Sensing and Communication Enabled Multiple Base Stations

With ISAC enabled multi-BS cooperative sensing (ISAC-MCS), the intelligent infrastructures connecting physical and cyber space can be established, ushering the era of 6G promoting the ...

Computing Resource Allocation Based on Multi-base Station and Multi

Based on this, this paper will study and analyze the resource allocation of the edge end in the multi-base station and multi-user scenario in mobile edge computing.

Multimodal Optimal Base Station Selection Network for Intelligent

In this study, we proposed the Multimodal Optimal Base Station Selection Network (MOBS-Net), which integrates a real-time base station judgment network with a sequential ...

Computing Resource Allocation Based on Multi-base Station and ...

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Integrated Sensing and Communication Enabled Multiple Base ...

Integrated Sensing and Communication Enabled Multiple Base Stations Cooperative Sensing Towards 6G Publisher: IEEE

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