Can a new base station architecture improve multiuser network performance?This paper proposes a new base station (BS) architecture employing multiple MAs for improving the multiuser network performance. First, the uplink multiple access channel (MAC) is modeled to capture the characteristics of the variation of wireless channels caused by the movement of MAs at the BS. Can movable antenna improve multiuser network performance?Abstract: Movable antenna (MA) is an innovative technology that facilitates the repositioning of antennas within the transmitter/receiver area to enhance channel conditions and communication performance. This paper proposes a new base station (BS) architecture employing multiple MAs for improving the multiuser network performance. Are multi-BS cooperative sensing algorithms suitable for mobile communication systems?processing algorithms for mobile communication systems are not initially designed for radar sensing. Therefore, it is necessary to design the multi-BS cooperative sensing algorithms, which fuse the sensing information from multiple BSs to improve the per What are the standardized energy-saving metrics for a base station?(1) Energy-saving reward: after choosing a shallower sleep strategy for a base station, the system may save more energy if a deeper sleep mode can be chosen, and in this paper, the standardized energy-saving metrics are defined as (18) $R_i e = E S M = 0 E S M = i E S M = 0 E S M = 3$ Does a base station sleep affect quality of service (QoS)?While base station sleeping and antenna switching techniques can be effective in saving energy, they can have an impact on the Quality of Service (QoS) of users. While the base station is sleeping, the User Equipment (UE) must wait for the base station to recover or find another available base station. What enabling technologies are used in multi-BS cooperative sensing?The enabling technologies, including unified ISAC performance metrics, ISAC signal design and optimization, interference management, cooperative sensing algorithms, are introduced in details. The performance evaluation results are provided to verify the effectiveness of multi-BS cooperative sensing schemes. Joint Target Assignment and Resource Allocation for Multi-Base Station Jan 6, &#; We formulate a joint optimization problem for ISAC beamforming and target allocation, ensuring communication quality of service (QoS) and base station (BS) power Joint Communication and Positioning of UAV with Multiple Base Stations Jun 12, &#; It delves into UAV communication and location collaboration technology oriented towards base station sensing, with a primary focus on the communication-sensing issues of RIS-Aided Non-Cooperative Multi-Base Station Multi-User Jan 14, &#; Multi-base station (MB) serving multi-user (MU) would be the most important scenario in the integrated sensing and communication (ISAC) scheme. However, removing Multi-Base Station Cooperative Sensing with AI-Aided TrackingOct 31, &#; 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 IoT-Enhanced Multi-Base Station Networks for Real-Time Aug 8, &#; The proliferation of small, agile unmanned aerial vehicles (UAVs) has exposed the limits of single-sensor surveillance in cluttered airspace. We propose an Internet of Things Multiuser Communications With Movable-Antenna Base

StationNov 2, &#; Movable antenna (MA) is an innovative technology that facilitates the repositioning of antennas within the transmitter/receiver area to enhance channel conditions and BER and Spectral Efficiency Analysis of Multi-base Station8 hours ago &#; Although many existing studies focus on RIS-assisted communication for single-base station scenarios, practical wireless networks typically consist of multiple base stations Energy-saving control strategy for ultra-dense network base stations Aug 1, &#; A base station control algorithm based on Multi-Agent Proximity Policy Optimization (MAPPO) is designed. In the constructed 5G UDN model, each base station is considered as Integrated Sensing and Communication enabled Multiple Base Stations Oct 12, &#; Driven by the intelligent applications of sixth-generation (6G) mobile communication systems such as smart city and autonomous driving, which connect the Integrated Sensing and Communication enabled Nov 27, &#; Driven by the intelligent applications of sixth-generation (6G) mobile communication systems such as smart city and au-tonomous driving, which connect the Joint Target Assignment and Resource Allocation for Multi-Base Station Jan 6, &#; We formulate a joint optimization problem for ISAC beamforming and target allocation, ensuring communication quality of service (QoS) and base station (BS) power Integrated Sensing and Communication enabled Multiple Base Stations Oct 12, &#; Driven by the intelligent applications of sixth-generation (6G) mobile communication systems such as smart city and autonomous driving, which connect the

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