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Can a shared base station optimization model improve the utilization of infrastructure resources?

To improve the utilization of infrastructure resources and reduce the cost of operators in the future 6G network construction, a 6G shared base stations optimization model is proposed in this paper, which is a bi-level multiobjective (BLMOP).

Why are base stations important?

Base stations are the backbone of wireless communication networks, playing a pivotal role in signal transmission, network reliability, and high-speed data connectivity. As technology evolves, the importance of base stations will continue to grow, addressing new challenges and supporting the ever-expanding demand for wireless communication services.

Can 6G shared base station planning be implemented with different scales?

Besides, five test instances of the proposed 6G shared base station planning with different scales are generated for experimental simulation.

Does a multi-base station architecture support multi-target sensing?

This paper considers a multiple base station (BS) architecture to support the comprehensive services of data transmission and multi-target sensing. In this context, a cooperative BS assignment and resource allocation (CBARA) strategy is proposed in this paper, aiming at jointly optimizing the communication and sensing (C&S) performance.

Oct 10, 2024&ensp;&#0183;&ensp;ISAC with multiple base stations (BSs) has emerged as a crucial area of research, which focuses on the coordinated use of resources across a network of BSs to simultaneously ...

Though sharing, close-set or multiple sets of launch systems, the probability of excessive electromagnetic radiation is greatly increased. So it is important to research on the prediction ...



Jun 27, 2025&ensp;&#0183;&ensp;Base stations are the backbone of wireless communication networks, playing a pivotal role in signal transmission, network reliability, and high-speed data connectivity. As ...

Dec 1, 2022&ensp;&#0183;&ensp;The demand for communication base stations in the 5G era has increased dramatically, the current large-scale transmission towers are important carrier for 5G ...

Oct 6, 2023&ensp;&#0183;&ensp;Driven by the intelligent applications of sixthgeneration (6G) mobile communication systems such as smart city and autonomous driving, which connect the physical and cyber ...

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