D2D communication reduces the burden on base stations

Overview

By allowing user equipments (UE s) to communicate directly without routing data through the base station (BS), D2D communication can improve spectral efficiency (SE) and energy efficiency (EE), reduce end-to-end latency, and support new proximity-based services. Device-to-Device (D2D) communication is a promising solution to meet the growing demands of 5G and future 6G networks by enabling direct communication between user devices. Thanks to the relay. Joint Power and Channel Allocation for D2D Communication. Device-to-device (D2D) communication is a technology that allows devices. Device-to-device (D2D) communication is a technology that allows devices communicating with other devices directly instead of going through the base station (BS), and it can reduce the burden of base stations and increase the system capacity of cellular networks. It has advantages like low energy consumption and enhanced system capacity.

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Unlocking D2D Communications Potential

Reduced latency: D2D communications can significantly reduce latency, as data is transmitted directly between devices without the need for intermediate hops.

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Secure Wireless Powered and Cooperative Jamming D2D ...

Abstract--This paper investigates a secure wireless-powered device-to-device (D2D) communication network in the presence of multiple eavesdroppers, where a hybrid base station (BS) in a cellular ...

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Deploying Energy Efficient D2d Communication in Mobile Networks

This communication allows two nearby devices to communicate with each other in the licensed cellular bandwidth without a base station (BS) involvement or with limited base station involvement.

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D2D communication can reduce the

burden on base stations

Cellular D2D communication can improve spectrum efficiency, increase system capacity, and reduce base station communication burdens by sharing authorized cell resources; however, can also cause ...

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A Joint Power and Channel Scheduling Scheme for Underlay D2D

From the perspective of the BS or core network, D2D communication can greatly reduce their communication data stream load, which is an urgent problem to be addressed due to the increasing ...

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D2D Architecture & Applications: Building Direct Connectivity Networks

By offloading traffic from the core network, D2D communication increases network capacity and reduces the burden on cellular infrastructure. This is particularly useful in densely populated areas where ...

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Joint Power and Channel Allocation for D2D Communication in ...

Device-to-device (D2D) communication

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An efficient resource optimization scheme for D2D communication

Cellular D2D communication can improve spectrum efficiency, increase system capacity, and reduce base station communication burdens by sharing authorized cell resources; however, can ...

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Device-to-Device Communication in 5G/6G: Architectural Foundations ...

D2D enables direct communication between nearby devices, reducing latency, increasing spectral reuses, and alleviating the load on base stations, which is especially beneficial in the ...

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Full-Duplex ISAC-Enabled D2D Underlaid Cellular Networks: Joint

Integrating device-to-device (D2D) communication into cellular networks can significantly reduce the transmission

burden on base stations (BSs). Besides, integrated sensing and communication (ISAC) ...

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