D2D communication reduces the burden on base stations

What are the advantages of D2D communication?
The main advantage of D2D communication is that the data traffic is routed between devices directly, which offloads the base station (eNB in LTE), reduces the latency, increases throughput, and enables higher data rates, which results in improved system capacity and end-user satisfaction.

Why does D2D communication have a limited range?
D2D communication typically has a limited range because devices communicate directly with each other without the use of a centralized network. This can be an issue in environments where devices are widely dispersed,such as large buildings or outdoor settings.

Can a D2D transmitter improve cd2d and cellular networks?
The proposed protocol uses a D2D transmitter to harvest energy from the cellular spectrum and act as a relay if not involved in D2D communication to improve the primary network. This mutually beneficial scenario is created to improve both cD2D and cellular networks.

What is D2D communication network interference coordination scheme based on Stackelberg?
D2D Communication Network Interference Coordination Scheme Based on Im proved Stackelberg. Sustainability 15 (2), 961. Li, X., Sun, Y., Zhou, L., Xu, Y., & Z hou, S. (2019). A resource alloca tion scheme based on predatory search algorithm for ultra-dense D2D communications.

D2D communication which is a traffic offloading technology can directly communicate between neighboring devices, and reduce the burden of base stations carrying ...

Based on the introduction of Device-to-Device (D2D) assisted communication in cellular networks, this paper proposes a probabilistic relay forwarding mechanism, which uses ...

On the other hand, the addition of D2D communication strengthens the whole wireless communication system and reduces the ...

In order to alleviate the burden on the base station (BS), [18] implemented power and channel configuration for D2D users by designing a distributed model based on DNN. [19] ...

Integrating device-to-device (D2D) communication into cellular networks can significantly reduce the transmission burden on base stations (BSs). Besides, integrated ...

Abstract--Traffic offloading via device-to-device (D2D) com-munications has been proposed to alleviate the traffic burden on base stations (BSs) and to improve the spectral and ...

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Fifth generation (5G) networks are desired to offer improved data rates employed for enhancing innovations of device-to-device (D2D) communication, small base stations ...

D2D Satellite Communication refers to communication paradigm where end user devices directly communicate with each other via satellite links, without relying on traditional ground based ...

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