

# D2D communication can reduce the burden on base stations

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May 1, 2019 Device to device (D2D) communication is a key technology of 5G mobile communications. It allows devices to communicate by using direct links, rather than travelling ?

Dec 1, 2022 Cellular D2D communication can improve spectrum efficiency, increase system capacity, and reduce base station communication burdens by sharing authorized cell ?

Jul 12, 2025 Fifth generation (5G) networks are desired to offer improved data rates employed for enhancing innovations of device-to-device (D2D) communication, small base stations ?

Jan 15, 2017 As D2D communication allows sharing of local content, without multiple base station requests, proactive caching (Pappalardo et al., 2016) has been introduced, to reduce ?

Apr 26, 2024 When applied to intelligent terminal devices, it can significantly improve network performance, with lower costs and simple distribution. Research has shown that introducing ?

Apr 14, 2023 In recent years, with the explosive growth of data traffic, communication base stations (BSs) need to serve more and more users. Offloading traffic from BSs has become an ?

Feb 8, 2020 In cellular networks, proximity users establish device-to-device(D2D) links directly under the control of base stations (BSs) for data exchange, and no base station forwarding is ?

Jul 9, 2025 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 ?

Aug 22, 2024 Abstract?Integrating device-to-device (D2D) communication into cellular networks can significantly reduce the transmission burden on base stations (BSs). Besides, integrated ?

Mar 18, 2019 Device to device (D2D) communication is a key technology of 5G mobile communications. It allows devices to communicate by using direct links, rather than travelling ?

Oct 1, 2020 The device-to-device (D2D) communications effectively reduce the load of base station and solves the problem of communication resource shortage. Thanks to the relay ?

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Oct 13, 2018 Through this D2D communication, we can reduce considerable redundant requests to the eNB, so that the traffic burden of eNB can be released. The main contribution of this ?

Dec 1, 2024 Cache-enabled Device-to-Device (D2D) communications is an effective way to improve data sharing. User Equipment (UE)-level caching holds the potential to reduce the ?

Apr 1, 2023 In order to improve the spectrum efficiency and communication robustness, we propose a cooperative non-orthogonal multiple access (NOMA) scheme in large-scale cellular ?

Jul 14, 2022 Abstract 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 ?

Mar 18, 2025 Integrating device-to-device (D2D) communication into cellular networks can significantly reduce the transmission burden on base stations (BSs). Besides, integrated ?

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