D2D communication of photovoltaic base stations

Explore the architecture, benefits, challenges, and real-world applications of Device-to-Device (D2D) communication in 5G networks, enabling direct connectivity between devices.

An energy efficient multi-level cluster based D2D communication protocol is introduced to maintain the cell operation even if the Base station is out of use. The protocol employs D2D communication and ...

Indeed, the devices can communicate with each other in a D2D system, and the base station (BS) can share the spectrum with D2D users, which can efficiently improve the spectrum and ...

This chapter investigates the interplay between cooperative device-to-device (D2D) communications and green communications in LTE heterogeneous networks (HetNets). Two game theoretic concepts are ...

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 ...

In 5G wireless networks, Device-to-Device (D2D) communications are critical, allowing direct connection across devices used by users, eliminating the requirement of data routing via the ...

This survey aims to provide a structured and in-depth review of the evolving role of D2D communication within the broader context of 5G/6G systems.

In this paper, due to the unlimited growth of service demands and high load traffic, a green wireless communication system has been considered with the aim of decreasing energy consumption of ...

The incorporation of device-to-device (D2D) communication, utilizing the same spectral resources as cellular networks, is regarded as a pivotal development for the next ...

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

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