

Research on D2D technology applied in 5G mobile networks

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Abstract: This topic aims to study and evaluate the effectiveness of Device-to-Device (D2D) technology in fifth-generation (5G) mobile networks. Through technical and experimental analysis, we identify the necessity of D2D in the 5G environment to optimize data transmission performance between mobile devices. The objective is to build a D2D support platform for 5G networks to improve communication speed and reduce latency. The research methodology includes both theoretical and experimental approaches, thereby providing recommendations for the deployment of D2D applications in 5G systems. The expected outcome of this topic is to provide a scientific foundation for enhancing the performance of future mobile networks.

Keywords: Device-to-Device, 5G mobile network, Data transmission performance