

MIMO technology for LTE networks.

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Abstract: In the context of increasing demand for data transmission speed in mobile systems, this topic focuses on applying Multiple-Input Multiple-Output (MIMO) technology to Long Term Evolution (LTE) networks. The main objective is to research and implement methods to optimize communication performance by leveraging the advantages of MIMO in LTE networks. Through a combination of theory and experimentation, the topic aims to contribute to improving mobile service quality and enhancing data processing capabilities for network operators. The expected outcome is to build a more efficient transmission system that meets the increasingly stringent demands of users.

Keywords: MIMO, LTE, Mobile communications, Transmission optimization, Technical experimentation