

Research on signal processing techniques in WiMAX

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Abstract: This topic focuses on researching and implementing signal processing techniques for WiMAX systems to meet practical requirements for high data transmission performance. Through a combination of theoretical analysis and experimentation, the objective is to build a solid technical foundation to optimize service quality and reliability in WiMAX wireless networks. Expected outcomes from this research include effective improvement solutions for signal processing, which can be widely applied in modern mobile communication systems.

Keywords: Wimax, signal processing techniques, wireless communication, performance optimization, experimentation