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Abstract: **Performance Evaluation of Noisy Wireless OFDM Channel Using 64-Quadrature Amplitude Modulation**

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Abstract

Orthogonal Frequency Division Multiplexing technique is one of the most prominent access techniques for both wired and wireless communication system. It is specially selected as an access technique of the fourth generation mobile cellular communication system. In this paper, the system model of OFDM is discussed along with the transmitter and receiver model. The performance of Orthogonal Frequency Division Multiplexing channel is measured in context of Bit Error Rate incorporating convolution coding under Additive White Gaussian Noisy environment. 64-Quadrature Amplitude Modulation (QAM) is selected to enhance the voice communication, especially in mobile cellular network. Entire system is examined based on MATLAB simulation.

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