

Research on synchronization issues in OFDM systems

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Abstract: This topic aims to identify and analyze synchronization issues in the widely used OFDM (Orthogonal Frequency Division Multiplexing) transmission system. Through theoretical research, we have identified key challenges related to time and frequency synchronization, and proposed a solution based on machine learning methods to improve transmission performance. By conducting experiments and implementing applications, the goal of the study is to contribute to enhancing the reliability and efficiency of OFDM systems in real-world environments.

Keywords: OFDM, synchronization, machine learning, transmission, performance