

Research and evaluation of LDPC decoding methods

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Abstract: This topic aims to study and evaluate the effectiveness of LDPC (Low-Density Parity-Check) decoding methods in telecommunications practice. The main objective is to conduct theoretical and experimental analysis to determine the superiority of LDPC over traditional algorithms. The approach includes a systematic study of theoretical foundations, design of experimental models, and comparison of results. It is expected that the application of LDPC will bring significant performance improvements in communication systems, contributing to the advancement of modern telecommunications technology.

Keywords: LDPC, decoding, digital communication, performance