

Research on soft decoding techniques for Hamming codes

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Abstract: This topic focuses on researching and implementing soft decoding methods for Hamming codes, aiming to improve accuracy in data reception and processing. The project contextualizes the problem through the practical application of Hamming codes in digital data transmission. The objective of the research is to build an efficient decoding system based on theoretical principles combined with empirical experimentation. The expected results of this topic will provide the information technology community with new knowledge and tools, making a significant contribution to improving the quality of data transmission services.

Keywords: Soft decoding, Hamming code, Accuracy, Applied research