

Simulation and evaluation of digital transmission quality using Hamming code.

Nguyen Viet Dung

Abstract: This topic focuses on simulating and evaluating the performance of a digital communication system using Hamming codes. To meet the requirement for stable signal transmission in noisy environments, the study proposes a method combining theory and experimentation to optimize communication performance. Through simulation and analysis, the goal is to build and test a digital communication system with higher accuracy and better robustness compared to traditional approaches. The research results are expected to make a significant contribution to improving the quality of modern digital communication services.

Keywords: Hamming code, digital transmission, simulation, performance evaluation, communication system