Abstract

This paper is proposed on HARQ (Hybrid Automatic Repeat Request) technique type II which is incremental redundancy where parity bits for error correction are sent only when they are required. HARQ improves the performance by allowing the receiver to combine multiple ARQ (Automatic Repeat Request) transmission. Errors over wireless link are modeled by Markov’s
model. Model undergoes a transition of one state to another in a chain like manner. In Markov’s Model each state has its signal to noise ratio for each states SNR (Signal to Noise Ratio) we are going to find out the optimum length of packet, FEC (Forward Error Correction) code rate and rate of increment.

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Index Terms

Computer Science
Information
Technology
Key words

ARQ

HARQ

Markov’s Model

FEC