

A STUDY ON ERROR CORRECTION CODING IN A WIRELESS TRANSMISSION MEDIUM

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ABSTRACT

Error connection coding which is capable of detecting and correcting the errors found in the data received from a wireless transmission plays a vital role in communication system. When data is transmitted from the transmitter over a wireless transmission medium, there are possibilities that the signal may get corrupted by interference such as noise, atmospheric elements and etc during the transmission. Therefore, the quality of the signal reduces. Without implementation of error correction coding, the corrupted signal received at the receiver end remains as useless information. Nevertheless, the quality of the signal can be improved greatly by minimizing the occurrence of errors on the data received through the implementation of error correction coding. This report examines practical implementation of error correction coding – Hamming code and Reed-Solomon Code in sending big load in a wireless radio frequency transmission medium.