

EE 5345

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Differential Quantization versus PCM

Download the ECG and EEG data from the course web page and for each data set, plot SNR versus bits/sample for PCM and DPCM. Start with 1 bit/sample (Delta Modulation versus 1-bit PCM), then do 2, 4, 8, and 12 bits/sample. Use a 5 coefficient prediction filter for DPCM. To determine the filter coefficients, solve the Yule-Walker equations.