



Digital Signal Processing

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Discrete Time Signals and Systems Sequence and sequence representation, Sampling process, Discrete time systems, Time domain characterization of LTI discrete time systems, Classification of LTI systems, Correlation of signals, Random signals. Digital Filter Structures Basic FIR digital filter structures, All pass filters, IIR digital filter design, Properties of IIR filters, IIR filter design, Characteristics of FIR filters with linear phase, Design of high pass, Band pass and band stop IIR filter design. Discrete Fourier Transform Discrete Fourier Transform (DFT), Definition, Properties, Relationship between the Fourier transform and the DFT, Operation of finite length sequences, Classification, DFT symmetry relations, Fourier domain filtering, Linear convolution using DFT, Discrete cosine transform, The Haar transform. Effects of Finite Register Length Effect of number representation on quantization, Quantization in sampling analog signals. Finite register length effects in realization of IIR digital filters, Finite register length effects in realization of FIR digital filters, Effects of finite register length in DFT computations. Multirate Digital Signal Processing Decimation by a factor D, Interpolation by a factor I, Sampling rate conversion by a rational factor I/D, Applications of multi rate signal processing, Power Spectrum Estimation : Basic principles of estimation theory, Estimation of auto covariance, Periodogram method of power spectral estimation, Smoothed spectrum estimators.

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