

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Electrical Engineering - NOC:Introduction to Adaptive Signal Processing

Subject Co-ordinator - Prof. Mrityunjoy Chakraborty

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction to Adaptive Filters
Lecture 2 - Probability and Random Variables
Lecture 3 - General Set of Random Variables
Lecture 4 - Statistical Impedance, Covariance Matrices
Lecture 5 - Multivariate Gaussian Density
Lecture 6 - Complex Random Variables
Lecture 7 - Introduction to Hermitian Matrices
Lecture 8 - Eigenvalues and eigenvectors of Hermitian Matrices
Lecture 9 - Spectral Decomposition of Hermitian Matrices
Lecture 10 - Positive Definite and Semidefinite Matrices
Lecture 11 - Introduction to Discrete Time Random Processes
Lecture 12 - Power Spectral Density (PSD)
Lecture 13 - PSD and Linear Time Invariant Systems
Lecture 14 - Optimal FIR Filter
Lecture 15 - Optimal FIR Filter (Continued...)
Lecture 16 - LMS Algorithm
Lecture 17 - Convergence Proof of LMS Algorithm
Lecture 18 - Convergence Proof of LMS Algorithm (Continued...)
Lecture 19 - Application of Adaptive Filter
Lecture 20 - Application of Adaptive Filter (Continued...)
Lecture 21 - Application of Adaptive Filter (Continued...)
Lecture 22 - Applications of Adaptive Filter
Lecture 23 - Applications of Adaptive Filter
Lecture 24 - Second Order Analysis of LMS Algorithm
Lecture 25 - Second Order Analysis of LMS Algorithm (Continued...)
Lecture 26 - Second Order Analysis of LMS Algorithm (Continued...)
Lecture 27 - Second Order Analysis of LMS Algorithm (Continued...)
Lecture 28 - NLMS Algorithm
Lecture 29 - NLMS Algorithm

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- Lecture 30 - Affine Projection Algorithm (APA)
- Lecture 31 - Affine Projection Algorithm (APA)
- Lecture 32 - Introduction to RLS Algorithm
- Lecture 33 - Introduction to RLS Algorithm (Continued...)
- Lecture 34 - Introduction to RLS Algorithm (Continued...)
- Lecture 35 - Formulation of the RLS Algorithm
- Lecture 36 - Introduction to RLS Algorithm
- Lecture 37 - Introduction to RLS Algorithm
- Lecture 38 - Formulation of the RLS Algorithm
- Lecture 39 - Derivation of the RLS transversal adaptive filter
- Lecture 40 - Derivation of the RLS transversal adaptive filter
- Lecture 41 - Derivation of the RLS transversal adaptive filter