

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

NPTEL Video Course - Electronics and Communication Engineering - NOC:Bayesian, MMSE Estimation for Wireless C

Subject Co-ordinator - Prof. Aditya K. Jagannatham

Co-ordinating Institute - IIT - Kanpur

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

- Lecture 1 - Basics $\hat{\Lambda}$ Introduction to Bayesian Minimum Mean Squared Error
- Lecture 2 - Optimal Bayesian Minimum Mean Squared Error (MMSE) Estimate
- Lecture 3 - Derivation of Minimum Mean Squared Error MMSE Estimate for Gaussian Parameter $\hat{\Lambda}$ Part I
- Lecture 4 - Derivation of Minimum Mean Squared Error MMSE Estimate for Gaussian Parameter $\hat{\Lambda}$ Part II
- Lecture 5 - Derivation of Minimum Mean Squared Error (MMSE) Estimate for Gaussian Parameter $\hat{\Lambda}$ Non-Zero Mean
- Lecture 6 - Minimum Mean Squared Error MMSE Estimation Application $\hat{\Lambda}$ Wireless Sensor Network
- Lecture 7 - Simplification and Example of Minimum Mean Squared Error MMSE Estimate for Wireless Sensor Network
- Lecture 8 - Minimum Mean Squared Error MMSE Estimation Application $\hat{\Lambda}$ Wireless Fading Channel Estimation
- Lecture 9 - Simplification and Example of Minimum Mean Squared Error MMSE Estimate for Wireless Fading Channel
- Lecture 10 - Minimum Mean Squared Error MMSE for Wireless Sensor Network WSN $\hat{\Lambda}$ Derivation and Example
- Lecture 11 - Reliability of Minimum Mean Squared Error MMSE Estimate $\hat{\Lambda}$ Part I
- Lecture 12 - Reliability of Minimum Mean Squared Error MMSE Estimate $\hat{\Lambda}$ Part II
- Lecture 13 - Minimum Mean Squared Error MMSE for Wireless Fading Channel Estimation $\hat{\Lambda}$ Derivation
- Lecture 14 - Minimum Mean Squared Error (MMSE) for Wireless Fading Channel Estimation $\hat{\Lambda}$ Example and Properties
- Lecture 15 - Linear Minimum Mean Squared Error LMMSE Estimate Derivation $\hat{\Lambda}$ Part I
- Lecture 16 - Linear Minimum Mean Squared Error LMMSE Estimate Derivation $\hat{\Lambda}$ Part II
- Lecture 17 - Vector Parameter Estimation $\hat{\Lambda}$ System Model for Multi-Antenna Downlink Channel Estimation
- Lecture 18 - Linear Minimum Mean Squared Error LMMSE Estimate for Multi Antenna Downlink Wireless Channel - E
- Lecture 19 - Linear Minimum Mean Squared Error LMMSE Estimate for Multi Antenna Downlink Wireless Channel - E
- Lecture 20 - Example of Linear Minimum Mean Squared Error LMMSE Estimation for Multi Antenna Downlink Wireless Channel
- Lecture 21 - Derivation and Example of Error Covariance of Multi Antenna LMMSE Channel Estimation
- Lecture 22 - System Model for Multiple Input Multiple Output MIMO Downlink Wireless Channel Estimation
- Lecture 23 - Channel/ Noise Statistics for Multiple-Input Multiple-Output (MIMO) Downlink Wireless Channel Es
- Lecture 24 - LMMSE/ MMSE Estimation for Multiple-Input Multiple-Output(MIMO) Downlink Wireless Channel Estima
- Lecture 25 - Example of LMMSE/ MMSE Estimation for Multiple-Input Multiple-Output (MIMO) Downlink Wireless Ch
- Lecture 26 - Introduction and system model for equalization
- Lecture 27 - Linear Minimum Mean Square Error (LMMSE) Channel Equalization
- Lecture 28 - Error for LMMSE Channel Equalizer and Example of LMMSE Channel Equalization
- Lecture 29 - Example of Linear Minimum Mean Square Error (LMMSE) Channel Equalization

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- Lecture 30 - Introduction and system model for OFDM
- Lecture 31 - System model for OFDM, IFFT/ FFT Operations
- Lecture 32 - LMMSE Estimation for OFDM
- Lecture 33 - Estimate and Error variance of LMMSE Estimate
- Lecture 34 - Example of OFDM
- Lecture 35 - Example of LMMSE estimate and Error variance for OFDM