

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

NPTEL Video Course - Electronics and Communication Engineering - Digital Voice and Picture Communication

Subject Co-ordinator - Prof. Somnath Sengupta

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction
- Lecture 2 - Speech Production Model
- Lecture 3 - Speech Coding
- Lecture 4 - Quantizers for Speech Signal
- Lecture 5 - mew - Law and Optimum Quantizer
- Lecture 6 - Adaptive Quantizer
- Lecture 7 - Differential Quantization
- Lecture 8 - LDM and ADM
- Lecture 9 - Differential PCM and Adaptive Prediction
- Lecture 10 - Linear Prediction of Speech
- Lecture 11 - Computational Aspects of LPC parameters
- Lecture 12 - Cholesky Decomposition
- Lecture 13 - Lattice Formulation of LPC Coefficient
- Lecture 14 - Linear Predictive Synthesizer
- Lecture 15 - LPC Vocoder
- Lecture 16 - Introduction to Image and Video Coding
- Lecture 17 - Lossy Image Compression
- Lecture 18 - DCT Quantization and Limitations
- Lecture 19 - Theory of Wavelets
- Lecture 20 - Discrete Wavelet Transforms
- Lecture 21 - DWT on the Images and its Encoding
- Lecture 22 - Embedded Zero Tree Wavelet Encoding
- Lecture 23 - Video Coding
- Lecture 24 - Motion Estimate Techniques
- Lecture 25 - Fast Motion Estimation Techniques
- Lecture 26 - Video Coding Standards
- Lecture 27 - Advanced Coding Aspects
- Lecture 28 - Audio Coding
- Lecture 29 - Audio Coding AC - 3

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

- Lecture 30 - AC -3 Decoder
- Lecture 31 - MPEG - 1 Audio Coding
- Lecture 32 - Introduction to VoIP
- Lecture 33 - VoIP Signaling
- Lecture 34 - H.323 Call Controls and Enhancements
- Lecture 35 - Interworking with PSTN Limitations and Solution
- Lecture 36 - Multiplexing Schemes
- Lecture 37 - H.323
- Lecture 38 - ISDN Video Conferencing
- Lecture 39 - Video Conferencing
- Lecture 40 - 4G Multimedia Conferencing