

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

NPTEL Video Course - Electronics and Communication Engineering - NOC:An Introduction to Information Theory

Subject Co-ordinator - Dr. Adrish Banerjee

Co-ordinating Institute - IIT - Kanpur

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

- Lecture 1 - Introduction
- Lecture 2 - Measure of Information
- Lecture 3 - Information Inequalities
- Lecture 4 - Problem solving session - I
- Lecture 5 - Block to Variable Length Coding - I : Prefix-free code
- Lecture 6 - Block to Variable Length Coding - II : Bounds on Optimal Code Length
- Lecture 7 - Block to Variable Length Coding - III : Huffman Coding
- Lecture 8 - Variable to block length coding
- Lecture 9 - The asymptotic equipartition property
- Lecture 10 - Block to block coding of DMS
- Lecture 11 - Problem solving session - II
- Lecture 12 - Universal Source Coding - I : Lempel-Ziv Algorithm-LZ77
- Lecture 13 - Universal source coding - II : Lempel-Ziv Welch Algorithm (LZW)
- Lecture 14 - Coding of sources with memory
- Lecture 15 - Channel Capacity
- Lecture 16 - Joint typical sequences
- Lecture 17 - Noisy channel coding theorem
- Lecture 18 - Differential entropy
- Lecture 19 - Gaussian channel
- Lecture 20 - Parallel Gaussian channel
- Lecture 21 - Problem solving session - III
- Lecture 22 - Rate distortion theory
- Lecture 23 - Blahut-Arimoto Algorithm
- Lecture 24 - Problem solving session - IV

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