

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

NPTEL Video Course - Computer Science and Engineering - NOC:Randomized Algorithms

Subject Co-ordinator - Prof. Benny George K

Co-ordinating Institute - IIT - Guwahati

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

Lecture 1 - Introduction to Randomized Algorithms
Lecture 2 - Randomized Mincut Algorithm
Lecture 3 - Randomized Find
Lecture 4 - Probability Review
Lecture 5 - Expectation of Random Variables
Lecture 6 - Conditional Probability and Conditional Expectation2
Lecture 7 - Birthday Paradox
Lecture 8 - Markov and Chebychev's Inequalities
Lecture 9 - Median Algorithm
Lecture 10 - Chernoff Bound
Lecture 11 - Permutation Routing on a Hypercube
Lecture 12 - Permutation Routing on a Hypercube (Analysis)
Lecture 13 - Introduction to Probabilistic Method
Lecture 14 - More Examples on Probabilistic Method
Lecture 15 - Lovasz Local Lemma
Lecture 16 - Introduction to Markov Chains
Lecture 17 - 2-SAT and Markov Chains
Lecture 18 - 3-SAT and Markov Chains
Lecture 19 - Electrical Networks
Lecture 20 - Cover Time
Lecture 21 - Rapid Mixing
Lecture 22 - Introduction to Computational Complexity
Lecture 23 - Pratt's Certificate
Lecture 24 - Primality Testing
Lecture 25 - Miller Rabin Algorithm
Lecture 26 - All pair shortest path - I
Lecture 27 - All pair shortest path - II
Lecture 28 - Randomized MST
Lecture 29 - Introduction to approximate counting

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- Lecture 30 - DNF counting
- Lecture 31 - Perfect Matching - I
- Lecture 32 - Perfect Matching - II
- Lecture 33 - Perfect Matching - III
- Lecture 34 - Treaps
- Lecture 35 - Hashing
- Lecture 36 - Probabilistically checkable proofs - I
- Lecture 37 - Probabilistically checkable proofs - II
- Lecture 38 - Probabilistically checkable proofs - III
- Lecture 39 - LFKN Protocol
- Lecture 40 - summary