NPTEL Video Course - Computer Science and Engineering - Performance Evaluation of Computer Systems

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Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction to performance evaluation of computer systems
Lecture 2 - How to avoid common mistakes
Lecture 3 - Selection of techniques and metrics
Lecture 4 - Case study
Lecture 5 - Random Variables and probability distributions
Lecture 6 - Probability distributions - I
Lecture 7 - Probability distributions - II
Lecture 8 - Probability distributions - III
Lecture 9 - Stochastic process
Lecture 10 - Markov Chain
Lecture 11 - Slotted Aloha protocol model and discrete-time birth death process
Lecture 12 - Continuous time Markov chain and queuing theory - I
Lecture 13 - Queuing theory - I (Continued)
Lecture 14 - Queuing theory - II
Lecture 15 - Queuing theory - III
Lecture 16 - Queuing theory - IV
Lecture 17 - Queuing theory - V
Lecture 18 - Queuing theory - VI
Lecture 19 - Queuing networks - I
Lecture 20 - Queuing networks - II
Lecture 21 - Slotted Aloha Markov model
Lecture 22 - Simulations - I
Lecture 23 - Simulations - II
Lecture 24 - Simulations - III
Lecture 25 - Operational laws - I
Lecture 26 - Operational laws - II
Lecture 27 - Open and closed queuing networks
Lecture 28 - Approximate MVA
Lecture 29 - Convolution algorithm - I

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Lecture 30 - Convolution algorithm - II
Lecture 31 - Load-dependent service centers
Lecture 32 - Hierarchical decomposition
Lecture 33 - Balanced Job Bounds
Lecture 34 - Confidence interval for propotions and introduction to experimental design
Lecture 35 - 2k factorial design
Lecture 36 - 2k r factorial design and 2k-p fractional factorial design
Lecture 37 - Programming aspects of discrete-event simulations - I
Lecture 38 - Programming aspects of discrete-event simulations - II
Lecture 39 - Discrete-event simulations - III
Lecture 40 - PetriNets - I
Lecture 41 - PetriNets - II
Lecture 42 - PetriNets - III
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