NPTEL Video Course - Special Lecture Series - ACM Summer School on Graph Theory and Graph Algorithms

Subject Co-ordinator - Dr. N S. Narayanaswamy

Co-ordinating Institute - IIT - Madras

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

Lecture 30 - Network Flows - Part 2
Lecture 31 - Network Flows - Part 3
Lecture 32 - Network Flows - Part 4
Lecture 33 - Turanâ s and Madrurâ s theorem - Part 1
Lecture 34 - Turanâ s and Madrurâ s theorem - Part 2
Lecture 35 - NP Computations - Part 1
Lecture 36 - NP Computations - Part 2
Lecture 37 - Spectral Graph Theory-I - Part 1
Lecture 38 - Spectral Graph Theory-I - Part 2
Lecture 39 - Spectral Graph Theory-I - Part 3
Lecture 40 - NP Computations II - Part 1
Lecture 41 - NP Computations II - Part 2
Lecture 42 - Graph Coloring - Part 1
Lecture 43 - Graph Coloring - Part 2
Lecture 44 - Spectral Graph Theory-II - Part 1
Lecture 45 - Spectral Graph Theory-II - Part 2
Lecture 46 - NP Computations Reductions - Part 1
Lecture 47 - NP Computations Reductions - Part 2
Lecture 48 - NP Computations Reductions - Part 3
Lecture 49 - Spectral Graph Theory-III - Part 1
Lecture 50 - Planar Graphs - Part 1
Lecture 51 - Planar Graphs - Part 2
Lecture 52 - NP Computations and Approximation Algorithms - Part 1
Lecture 53 - NP Computations and Approximation Algorithms - Part 2
Lecture 54 - Spectral Graph Theory-IV - Part 1
Lecture 55 - Spectral Graph Theory-IV - Part 2
Lecture 56 - Approximation Algorithms I - Part 1
Lecture 57 - Approximation Algorithms I - Part 2
Lecture 58 - Social Network Analysis - Part 1
Lecture 59 - Social Network Analysis - Part 2
Lecture 60 - Spectral Graph Theory-V - Part 1
Lecture 61 - Spectral Graph Theory-V - Part 2
Lecture 62 - Approximation Algorithms II - Part 1
Lecture 63 - Approximation Algorithms II - Part 2
Lecture 64 - Spectral Graph Theory-VI - Part 1
Lecture 65 - Spectral Graph Theory-VI - Part 2
Lecture 66 - RSA Crypto - Part 1
Lecture 67 - RSA Crypto - Part 2
Lecture 68 - Approximation Algorithms III - Part 1

NPTEL Video Course - Special Lecture Series - ACM Summer School in Data Science

Subject Co-ordinator - Prof. Murugaiyan Amirthalingam

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Probability - Part 1
Lecture 2 - Probability - Part 2
Lecture 3 - Probability - Part 3
Lecture 4 - Math Foundation - Part 1
Lecture 5 - Math Foundation - Part 2
Lecture 6 - Math Foundation - Part 3
Lecture 7 - Math Foundation 2 - Part 1
Lecture 8 - Math Foundation 2 - Part 2
Lecture 9 - Math Foundation 2 - Part 3
Lecture 10 - Introduction to probability for Data science - Part 1
Lecture 11 - Introduction to probability for Data science - Part 2
Lecture 12 - Introduction to probability for Data science - Part 3
Lecture 13 - Introduction to Statistics for Data science - Part 1
Lecture 14 - Introduction to Statistics for Data science - Part 2
Lecture 15 - Introduction to Statistics for Data science - Part 3
Lecture 16 - Clustering I - Part 1
Lecture 17 - Clustering I - Part 2
Lecture 18 - Clustering I - Part 3
Lecture 19 - Clustering II - Part 1
Lecture 20 - Clustering II - Part 2
Lecture 21 - Clustering II - Part 3
Lecture 22 - Dimensionality Reduction - Part 1
Lecture 23 - Dimensionality Reduction - Part 2
Lecture 24 - Dimensionality Reduction - Part 3
Lecture 25 - Supervised Learning I - Part 1
Lecture 26 - Supervised Learning I - Part 2
Lecture 27 - Supervised Learning I - Part 3
Lecture 28 - Supervised Learning II - Part 1
Lecture 29 - Supervised Learning II - Part 2

Lecture 30 - Supervised Learning II - Part 3
Lecture 31 - Supervised Learning III - Part 1
Lecture 32 - Supervised Learning III - Part 2
Lecture 33 - Supervised Learning III - Part 3
Lecture 34 - Linear Models For Classification - Part 1
Lecture 35 - Linear Models For Classification - Part 2
Lecture 36 - Linear Models For Classification - Part 3
Lecture 37 - Tree Based Methods - Part 1
Lecture 38 - Tree Based Methods - Part 2
Lecture 39 - SVMs - Part 1
Lecture 40 - SVMs - Part 2
Lecture 41 - SVMs - Part 3
Lecture 42 - Ensemble Methods - Part 1
Lecture 43 - Ensemble Methods - Part 2
Lecture 44 - Ensemble Methods - Part 3
Lecture 45 - Learning Theory - Part 1
Lecture 46 - Learning Theory - Part 2
Lecture 47 - Introduction to Probabilistic Modeling - Part 1
Lecture 48 - Introduction to Probabilistic Modeling - Part 2
Lecture 49 - Introduction to Probabilistic Modeling - Part 3
Lecture 50 - Probabilistic/Bayesian Models for Regression - Part 1
Lecture 51 - Probabilistic/Bayesian Models for Regression - Part 2
Lecture 52 - Probabilistic/Bayesian Models for Regression - Part 3
Lecture 53 - Probabilistic Classification, Latent Variable Models - Part 1
Lecture 54 - Probabilistic Classification, Latent Variable Models - Part 2
Lecture 55 - Probabilistic Classification, Latent Variable Models - Part 3
Lecture 56 - Deep Learning I - Part 1
Lecture 57 - Deep Learning I - Part 2
Lecture 58 - Deep Learning I - Part 3
Lecture 59 - Deep Learning II - Part 1
Lecture 60 - Deep Learning II - Part 2
Lecture 61 - Deep Learning II - Part 3
Lecture 62 - Deep Learning III - Part 1
Lecture 63 - Deep Learning III - Part 2
Lecture 64 - Deep Learning III - Part 3
Lecture 65 - Reinforcement learning I - Part 1
Lecture 66 - Reinforcement learning I - Part 2
Lecture 67 - Reinforcement learning II - Part 1
Lecture 68 - Reinforcement learning II - Part 2

NPTEL Video Course - Special Lecture Series - Topics in Theoritical Computer Science

Subject Co-ordinator - Dr. N S. Narayanaswamy

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Finite Automata
Lecture 2 - TMs, Halting Problems
Lecture 3 - Concurrency
Lecture 4 - Blockchain and Bitcoin
Lecture 5 - Complexity Theory
Lecture 6 - Lower Bounds, Dealing with NP hardness
Lecture 7 - Online and streaming algorithms
Lecture 8 - Zero Knowledge Proofs
Lecture 9 - Verification, Games

NPTEL Video Course - Special Lecture Series - Researching Anglo-Indians in India and the Diaspora

Subject Co-ordinator - Prof. Merin Simi Raj

Co-ordinating Institute - IIT - Madras

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

NPTEL Video Course - Special Lecture Series - Dravidian Temple Architecture and Construction Techniques

Subject Co-ordinator - Unknown

Co-ordinating Institute - IIT - Madras

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

Lecture 30 - Dhisai Aridhal - Part 2
Lecture 31 - Dhisai Aridhal - Part 3
Lecture 32 - Dhisai Aridhal - Part 4
Lecture 33 - Dhisai Aridhal - Part 5
Lecture 34 - Site Analysis - Part 1
Lecture 35 - Site Analysis - Part 2
Lecture 36 - Site Analysis - Part 3
Lecture 37 - Site Analysis - Part 4
Lecture 38 - Site Analysis - Part 5
Lecture 39 - Site Analysis - Part 6
Lecture 40 - Site Analysis - Part 7
Lecture 41 - Site Analysis - Part 8
Lecture 42 - Site Analysis - Part 9
Lecture 43 - Formulation of Structure - Part 1
Lecture 44 - Formulation of Structure - Part 2
Lecture 45 - Formulation of Structure - Part 3
Lecture 46 - Formulation of Structure - Part 4
Lecture 47 - Formulation of Structure - Part 5
Lecture 48 - Formulation of Structure - Part 6
Lecture 49 - Formulation of Structure - Part 7
Lecture 50 - Formulation of Structure - Part 8
Lecture 51 - Formulation of Structure - Part 9
Lecture 52 - Formulation of Structure - Part 10
Lecture 53 - Formulation of Structure - Part 11
Lecture 54 - Formulation of Structure - Part 12
Lecture 55 - Formulation of Structure - Part 13
Lecture 56 - Formulation of Structure - Part 14
Lecture 57 - Formulation of Structure - Part 15
Lecture 58 - Formulation of Structure - Part 16
Lecture 59 - Formulation of Structure - Part 17
Lecture 60 - Formulation of Structure - Part 18
Lecture 61 - Formulation of Structure - Part 19
Lecture 62 - Formulation of Structure - Part 20
Lecture 63 - Formulation of Structure - Part 21
Lecture 64 - Formulation of Structure - Part 22
Lecture 65 - Formulation of Structure - Part 23
Lecture 66 - Formulation of Structure - Part 24
Lecture 67 - Formulation of Structure - Part 25
Lecture 68 - Formulation of Structure - Part 26

Lecture 69 - Formulation of Structure - Part 27
Lecture 70 - Formulation of Structure - Part 28
Lecture 71 - Formulation of Structure - Part 29
Lecture 72 - Formulation of Structure - Part 30
Lecture 73 - Formulation of Structure - Part 31
Lecture 74 - Formulation of Structure - Part 32
Lecture 75 - Formulation of Structure - Part 33
Lecture 76 - Formulation of Structure - Part 34
Lecture 77 - Formulation of Structure - Part 35
Lecture 78 - Formulation of Structure - Part 36
Lecture 79 - Formulation of Structure - Part 37
Lecture 80 - Formulation of Structure - Part 38
Lecture 81 - Formulation of Structure - Part 39
Lecture 82 - Formulation of Structure - Part 40
Lecture 83 - Formulation of Structure - Part 41
Lecture 84 - Formulation of Structure - Part 42
Lecture 85 - Formulation of Structure - Part 43
Lecture 86 - Formulation of Structure - Part 44
Lecture 87 - Formulation of Structure - Part 45
Lecture 88 - Formulation of Structure - Part 46
Lecture 89 - Characteristics of a Mandapam - Part 1
Lecture 90 - Characteristics of a Mandapam - Part 2
Lecture 91 - Characteristics of a Mandapam - Part 3
Lecture 92 - Characteristics of a Mandapam - Part 4
Lecture 93 - Characteristics of a Mandapam - Part 5
Lecture 94 - Characteristics of a Mandapam - Part 6

NPTEL Video Course - Special Lecture Series - ACM Summer School in Data Science (Bangalore)

Subject Co-ordinator - Unknown

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Web Browser Security
Lecture 2 - Trusted Computing
Lecture 3 - Buffer Overflow Vulnerability and Protection Techineques
Lecture 4 - Secure Software Engineering
Lecture 5 - Challenges and Opportunities with Cloud Security
Lecture 6 - Cognitive Security with Watson
Lecture 7 - IBM MaaS360 Architecture Overview
Lecture 8 - Unified Risk Management Approach
Lecture 9 - Data Encryption and Post Quantum Cryptography (PQC)
Lecture 10 - Network Security - I
Lecture 11 - Network Security - II
Lecture 12 - Network Security - III
Lecture 13 - Network Security - IV
Lecture 14 - Network Security - V
Lecture 15 - Network Security - VI
Lecture 16 - Security
Lecture 17 - Security
Lecture 18 - Security
Lecture 19 - Security Gap Analysis - I
Lecture 20 - Security Gap Analysis - II

NPTEL Video Course - Special Lecture Series - ACM Summer School on Algorithmic Game Theory

Subject Co-ordinator - Prof. Meghana Nasre

Co-ordinating Institute - IIT - Madras

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

Lecture 30 - An Introduction to Rent Division
Lecture 31 - Rent Division and Maximum Weight Matchings
Lecture 32 - Hall's Theorem and Maximin Share
Lecture 33 - Probability Review - Part 1
Lecture 34 - Probability Review - Part 2
Lecture 35 - Predicting Election Outcomes
Lecture 36 - Reservoir Sampling and Preference Elicitation

NPTEL Video Course - Special Lecture Series - ACM Summer School on Graph Theory and Graph Algorithms (Dr. N.S

Subject Co-ordinator - Dr. N.S. Narayanaswamy

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Basic Graph theory and Graph Algorithms - Part 1
Lecture 2 - Basic Graph theory and Graph Algorithms - Part 2
Lecture 3 - Basic Graph theory and Graph Algorithms - Part 3
Lecture 4 - Basic Graph theory and Graph Algorithms - Part 4
Lecture 5 - Basic Graph theory and Graph Algorithms - Part 5
Lecture 6 - Geometric Algorithms - Part 1
Lecture 7 - Geometric Algorithms - Part 2
Lecture 8 - Geometric Algorithms - Part 3
Lecture 9 - Geometric Algorithms - Part 4
Lecture 10 - Geometric Algorithms - Part 5
Lecture 11 - Geometric Algorithms - Part 6
Lecture 12 - Introduction to Computational Complexity,P,NP classes
Lecture 13 - NPC Reductions through examples - Part 1
Lecture 14 - NPC Reductions through examples - Part 2
Lecture 15 - NPC Reductions through examples - 3SAT
Lecture 16 - Subset Sum, Knapsack
Lecture 17 - Directed Hamiltonian Path-NPC Reduction
Lecture 18 - Introduction to LPnDuality theorem
Lecture 19 - Design of Approx.algorithms using primal dual scheme - Hitting set
Lecture 20 - Approx Vertex Cover
Lecture 21 - Appox for Min Cost VC, Approx for Min cost Set Cover
Lecture 22 - 2-factor approx for metric TSP, 1.5 Approx christofides Algo
Lecture 23 - knapsack Approx, 1/2 - factor Approx, 1- Îµ Approx
Lecture 24 - Perfect graphs,weak and strong perfect graph conjecture,line graphs,interval graphs
Lecture 25 - Î± perfection of interval graphs,chordal graphs,expansion lemma, proof for weak perfect conjectu
Lecture 26 - Î± perfection of interval graphs,chordal graphs,expansion lemma, proof for weak perfect conjectu
Lecture 27 - Comparability graph, Permutation graphs, AT-free graphs, Trapezoidal graphs, Circular arc graphs
Lecture 28 - Fixed Parameter Algorithms, -VC, Cluster vertex deletion, - Branching
Lecture 29 - Kernelization, -VC, CrownDecomposition, Feedback vertex set, Herative compression, Analysing bra

NPTEL Video Course - Special Lecture Series - ACM Summer School on Compiler Design and Construction

Subject Co-ordinator - Prof. Subhajit Roy

Co-ordinating Institute - IIT - Madras

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

Lecture 30 - High Level Optimizations - Part 2
Lecture 31 - High Level Optimizations - Part 3
Lecture 32 - High Level Optimizations - Part 4
Lecture 33 - High Level Optimizations - Part 5
Lecture 34 - High Level Optimizations - Part 6

NPTEL Video Course - Special Lecture Series - ACM Summer School on Geometric Algorithms and their Applicatior

Subject Co-ordinator - Prof. Arijit Bishnu

Co-ordinating Institute - IIT - Madras

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

Lecture 30 - Linear Programming
Lecture 31 - Arrangements - II
Lecture 32 - Zone Theorem and Application
Lecture 33 - Randomized Incremental Construction - I
Lecture 34 - Randomized Incremental Construction - II
Lecture 35 - VC-dimension, Epsilon-nets, LP-based approximation for Geometric Covering
Lecture 36 - Quasi-uniform Sampling for Weighted Covering Problems.
Lecture 37 - Local Search for Packing and Covering
Lecture 38 - PTAS via Local Search - I

NPTEL Video Course - Special Lecture Series - ACM Summer School on Algorithmic and Theoretical Aspects of Mac

Subject Co-ordinator - Meenakshi D'Souza

Co-ordinating Institute - IIT - Madras

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

Lecture 30 - Introduction to Reinforcement Learning Session - 1
Lecture 31 - Introduction to Reinforcement Learning Session - 2
Lecture 32 - Introduction to Reinforcement Learning Session - 3
Lecture 33 - Introduction to Reinforcement Learning Session - 4
Lecture 34 - Introduction to Reinforcement Learning Session - 5
Lecture 35 - Introduction to Reinforcement Learning Session - 6
Lecture 36 - Introduction to Reinforcement Learning Session - 7
Lecture 37 - Introduction of Cryptography Session - 1
Lecture 38 - Introduction of Cryptography Session - 2
Lecture 39 - Introduction of Cryptography Session - 3
Lecture 40 - Compressive Sensing Session - 1
Lecture 41 - Compressive Sensing Session - 2
Lecture 42 - Compressive Sensing Session - 3
Lecture 43 - Compressive Sensing Session - 4
Lecture 44 - Compressive Sensing Session - 5
Lecture 45 - Compressive Sensing Session - 6
Lecture 46 - Compressive Sensing Session - 7
Lecture 47 - Compressive Sensing Session - 8

NPTEL Video Course - Special Lecture Series - ACM Winter School on Hybrid Cloud

Subject Co-ordinator - Prof. Sashikumar Ganesan

Co-ordinating Institute - IIT - Madras

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

NPTEL Video Course - Special Lecture Series - ACM Indian Summer School on Programming Languages: Principles a

Subject Co-ordinator - Dr. Abhijat Vichare

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Review of Basic Concepts - Dr. Abhijat Vichare - Session - 1
Lecture 2 - Review of Basic Concepts - Dr. Abhijat Vichare - Session - 2
Lecture 3 - Review of Basic Concepts - Dr. Abhijat Vichare - Session - 3
Lecture 4 - Introduction to Lex and Yacc - Sameera Deshpande - Session - 1
Lecture 5 - Introduction to Lex and Yacc - Sameera Deshpande - Session - 2
Lecture 6 - Hello world, Revisiting the first program we write in c - Siddhesh Poyarekar - Session - 1
Lecture 7 - Compiler as system - Vivek Buzruk - Session - 1
Lecture 8 - Compiler as system - Vivek Buzruk - Session - 2
Lecture 9 - Introduction to Data Flow Analysis - Prof. Uday Khedker - Session - 1
Lecture 10 - Introduction to Data Flow Analysis - Prof. Uday Khedker - Session - 2
Lecture 11 - Introduction to Data Flow Analysis - Prof. Uday Khedker - Session - 3
Lecture 12 - Introduction to Data Flow Analysis - Prof. Uday Khedker - Session - 4
Lecture 13 - Introduction to Data Flow Analysis - Prof. Uday Khedker - Session - 5
Lecture 14 - Introduction to Data Flow Analysis - Prof. Uday Khedker - Session - 6
Lecture 15 - Undefined Behavior Compiler Optimization - Prathamesh K Session - 1
Lecture 16 - Program Semantics - Prof. Subhajit Roy Session - 1
Lecture 17 - Program Semantics - Prof. Subhajit Roy Session - 2
Lecture 18 - Program Semantics - Prof. Subhajit Roy Session - 3
Lecture 19 - Program Semantics - Prof. Subhajit Roy Session - 4
Lecture 20 - Program Semantics - Prof. Subhajit Roy Session - 5
Lecture 21 - Program Semantics - Prof. Subhajit Roy Session - 6
Lecture 22 - Program Semantics - Prof. Subhajit Roy Session - 7
Lecture 23 - Program Semantics - Prof. Subhajit Roy Session - 8
Lecture 24 - Introduction to Optimizations - Prof. V. Krishna N Session - 1
Lecture 25 - Introduction to Optimizations - Prof. V. Krishna N Session - 2
Lecture 26 - Introduction to Optimizations - Prof. V. Krishna N Session - 3
Lecture 27 - Introduction to Optimizations - Prof. V. Krishna N Session - 4
Lecture 28 - Compiler as system - Vivek S. Buzruk Session - 1
Lecture 29 - Compiler as system - Vivek S. Buzruk Session - 2

NPTEL Video Course - Special Lecture Series - ACM Winter School 2019 on High Performance Computing

Subject Co-ordinator - Dr. Mainak Chaudhuri

Co-ordinating Institute - IIT - Madras

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

NPTEL Video Course - Special Lecture Series - Thermodynamics of Materials

Subject Co-ordinator - Prof. Sir H. K. D. H. Bhadeshia

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Basic thermodynamic functions: Enthalpy, entropy, configurational entropy, Gibbs free energy
Lecture 2 - State of equilibrium: Chemical potential, activity, equilibrium between solutions
Lecture 3 - Case study: Mechanical alloying, alloying by deformation.
Lecture 4 - Computer calculation of phase diagrams
Lecture 5 - Thermodynamics of irreversible processes: Multiple irreversible processes
Lecture 6 - Quasichemical solutions

NPTEL Video Course - Special Lecture Series - ACM India Summer School on Program Execution

Subject Co-ordinator - Unknown

Co-ordinating Institute - IIT - Madras

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

Lecture 30 - The Future of Compute - Part 1
Lecture 31 - The Future of Compute - Part 2

NPTEL Video Course - Special Lecture Series - ACM India Summer School on Programming Language Analysis and Op

Subject Co-ordinator - Girish Bharambe

Co-ordinating Institute - IIT - Madras

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

NPTEL Video Course - Special Lecture Series - ACM Summer School on Shape Modelling

Subject Co-ordinator - Aditya Tatu

Co-ordinating Institute - IIT - Madras

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

Lecture 30 - Laplace Beltrami on Manifolds and Meshes with Applications - Part 2
Lecture 31 - Laplace Beltrami on Manifolds and Meshes with Applications - Part 3
Lecture 32 - Laplace Beltrami on Manifolds and Meshes with Applications - Part 4
Lecture 33 - Laplace Beltrami on Manifolds and Meshes with Applications - Part 5
Lecture 34 - Laplace Beltrami on Manifolds and Meshes with Applications - Part 6
Lecture 35 - Internal Digital R and I - Part 1
Lecture 36 - Internal Digital R and I - Part 2
Lecture 37 - Internal Digital R and I - Part 3
Lecture 38 - Rigid and Non rigid Shape Matching - Part 1
Lecture 39 - Rigid and Non rigid Shape Matching - Part 2
Lecture 40 - Rigid and Non rigid Shape Matching - Part 3
Lecture 41 - Rigid and Non rigid Shape Matching - Part 4
Lecture 42 - Geometric Deep Learning - Part 1
Lecture 43 - Geometric Deep Learning - Part 2
Lecture 44 - Geometric Deep Learning - Part 3
Lecture 45 - Geometric Deep Learning - Part 4
Lecture 46 - Geometric Deep Learning - Part 5
Lecture 47 - Geometric Deep Learning - Frame Works
Lecture 48 - Geometric Deep Learning - Lab 1
Lecture 49 - Geometric Deep Learning - Lab 2
Lecture 50 - Geometric Deep Learning - Lab 3

NPTEL Video Course - Special Lecture Series - ACM India Summer School on Shape Modelling

Subject Co-ordinator - Multi-Faculty

Co-ordinating Institute - IIT - Madras

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

NPTEL Video Course - Special Lecture Series - ACM India Winter School on Topics in Digital Trust

Subject Co-ordinator - Multi-Faculty

Co-ordinating Institute - IIT - Madras

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

Lecture 30 - ACM Day 7 session 1 - Part I
Lecture 31 - ACM Day 7 session 1 - Part II
Lecture 32 - ACM Day 7 Session 2
Lecture 33 - ACM Day 8 Session 1
Lecture 34 - ACM Day 8 Session 2
Lecture 35 - ACM Day 8 Session 3
Lecture 36 - ACM Day 8 Session 4
Lecture 37 - ACM Day 9 Session 1
Lecture 38 - ACM Day 9 Session 2
Lecture 39 - ACM Day 9 Session 3
Lecture 40 - ACM Day 9 Session 4
Lecture 41 - ACM Day 9 Session 5 - Part 1
Lecture 42 - ACM Day 9 Session 5 - Part 2
Lecture 43 - ACM Day 10 Session 1
Lecture 44 - ACM Day 10 Session 2 - Part 1
Lecture 45 - ACM Day 10 Session 2 - Part 2
Lecture 46 - ACM Day 10 Session 3 - Part 1
Lecture 47 - ACM Day 10 Session 3 - Part 2

NPTEL Video Course - Special Lecture Series - ACM Winter School on Design, Implementation and Verification of

Subject Co-ordinator - Multi-Faculty

Co-ordinating Institute - IIT - Madras

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

NPTEL Video Course - Special Lecture Series - Topics In Theoretical Computer Science (2023)

Subject Co-ordinator - Prof. Prajakta Nimbhorkar

Co-ordinating Institute - IIT - Madras

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

NPTEL Video Course - Special Lecture Series - NPTEL Special Lectures Series

Subject Co-ordinator - Mr. Ravikrishnan .A, Srivastava, Raman .K

Co-ordinating Institute - IIT - Madras

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

NPTEL Video Course - Special Lecture Series - ACM India Summer School on IoT and Embedded Systems

Subject Co-ordinator - Prof. Meenakshi DSouza

Co-ordinating Institute - IISc - Bangalore

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

Lecture 1 - ACM India Summer School on IoT and Embedded Systems - Introduction
Lecture 2 - Embedded Sysyem: An Introduction
Lecture 3 - Introduction to Embedded Sysyems
Lecture 4 - Introduction to IoT
Lecture 5 - AWS IoT: Tutorial and demonstration
Lecture 6 - IoT: Components, operating systems and protocols
Lecture 7 - Arduino programming
Lecture 8 - Arduino programming: Tutorial
Lecture 9 - IoT Applications
Lecture 10 - IoT Applications: Tutorial and demonstration - 1
Lecture 11 - IoT Applications: Tutorial and demonstration - 2
Lecture 12 - Cloud, edge and fog computing for IoT - Part I
Lecture 13 - Cloud, edge and fog computing for IoT - Part II
Lecture 14 - IoT Communication

NPTEL Video Course - Special Lecture Series - ACM India Summer School on Algorithms for Data Science (2023)

Subject Co-ordinator - Multi-Faculty

Co-ordinating Institute - IIT - Madras

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

NPTEL Video Course - Special Lecture Series - ACM India Summer School on Cybersecurity for Women

Subject Co-ordinator - Multi-Faculty

Co-ordinating Institute - IIT - Madras

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

NPTEL Video Course - Special Lecture Series - ACM Winter Schools - Cryptography and Cybersecurity

Subject Co-ordinator - Dr. Aswani Kumar

Co-ordinating Institute - IISc - Bangalore

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

NPTEL Video Course - Special Lecture Series - ACM Winter School on Network Science

Subject Co-ordinator - Prof. Loyimee Gogoi

Co-ordinating Institute - Ahmedabad University

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

NPTEL Video Course - Special Lecture Series - ACM Winter School on Recent Trends in AI and ML

Subject Co-ordinator - Dr. Chandranath Adak

Co-ordinating Institute - IIT - Patna

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

NPTEL Video Course - Special Lecture Series - ACM India Pingala Interactions in Computing (PIC) 2024

Subject Co-ordinator - Multi-Faculty

Co-ordinating Institute - IISc - Bangalore

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

NPTEL Video Course - Special Lecture Series - ACM INDIA ARCS 2024

Subject Co-ordinator - Multi-Faculty

Co-ordinating Institute - IISc - Bangalore

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

NPTEL Video Course - Special Lecture Series - ACM INDIA Annual Event 2024

Subject Co-ordinator - Meenakshi D'Souza, Hirendra Nath Ghosh

Co-ordinating Institute - IISc - Bangalore

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

Lecture 1 - Inauguration - Meenakshi D'Souza, Hirendra Nath Ghosh
Lecture 2 - ACM: Goals, Priorities, Initiatives - Yannis Ioannidis
Lecture 3 - ACM India at a Glance - Venkatesh Raman
Lecture 4 - Fireside Chat with Robert Metcalfe - Robert Metcalfe, Pravin Bhagwat
Lecture 5 - Human Factors of Formal Methods - Shriram Krishnamurthi
Lecture 6 - ACM India Awards Ceremony 1 - Hemant Pande
Lecture 7 - ACM India Awards Ceremony 2 - Hemant Pande
Lecture 8 - Efficient Verification of Computation on Untrusted Platforms - Yael Kalai
Lecture 9 - The Story of 14Trees - Pravin Bhagwat

NPTEL Video Course - Special Lecture Series - ACM INDIA Winter School - Full-Stack Networking (FSN)

Subject Co-ordinator - Multi-Faculty

Co-ordinating Institute - IISc - Bangalore

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

Lecture 1 - Introduction to Full-Stack Networking School
Lecture 2 - Linux Netwoking Stack, Evolution of NICs, Evolution of Network packet processors
Lecture 3 - Demo Session 1: Hands on with basic Linux networking commands
Lecture 4 - Demo Session 2: Netfilter and iptables
Lecture 5 - Intro to virtualization containers
Lecture 6 - Demo session 1: Hands on with Docker
Lecture 7 - Demo session 1: Hands on with Containers
Lecture 8 - Demo session 1: Hands on with Kubernetes
Lecture 9 - Container Networking : CNI service mesh, L7 Proxies, Overlay networks
Lecture 10 - Container Networking : AWS, VPC, NAT, gateways
Lecture 11 - Demo Session 1
Lecture 12 - Multicloud
Lecture 13 - Invited talk- Research Career
Lecture 14 - eBPF
Lecture 15 - eBPF for Networking
Lecture 16 - Invited talks: Application Connectivity for the Multi-Cloud Era
Lecture 17 - Application layer networking
Lecture 18 - Invited talk: Performance Measurement and Optimization
Lecture 19 - Invited talk: Chaos Engineering
Lecture 20 - Websockets
Lecture 21 - RPC: Remote Procedure Calls
Lecture 22 - Invited talk: TiHAN Edge cloud testbed with WiFi/5G
Lecture 23 - Demo Session: Application Layer Networking
Lecture 24 - Message Queues
Lecture 25 - Invited talks: Towards Expressive and Performant Service Meshes
Lecture 26 - Advanced HTTP
Lecture 27 - WiFi Tuned
Lecture 28 - Multipath Networking
Lecture 29 - Demo Session - Multipath networking