NPTEL Video Course - Electrical Engineering - NOC:Peer to Peer Networks

Subject Co-ordinator - Prof. Yatindra N Singh

Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Introduction to Peer to Peer Networks
Lecture 2 - Peer to Peer Network in Telephony
Lecture 3 - Building DHT Networks
Lecture 4 - Logarithmic Partitioning of Node ID Space and Index Entry Authenticity
Lecture 5 - Implementation of Voice over Internet Telephony in P2P Way
Lecture 6 - Leaf Nodes, Core Nodes and Type of Messages in DHT Networks
Lecture 7 - Static and Dynamic Partitioning of Node ID Space
Lecture 8 - PASTRY Protocol
Lecture 9 - Understanding the PASTRY Protocol through Example
Lecture 10 - Kademlia
Lecture 11 - Tapestry
Lecture 12 - Understanding the Tapestry Protocol through Example
Lecture 13 - Multi-dimensional Distributed Hash Table
Lecture 14 - Multi-Layer DHT
Lecture 15 - Keeping <Key, Value> Pairs at Correct Root Nodes
Lecture 16 - Abrupt and Graceful Exit of Root Node
Lecture 17 - Resilience of <Key, Value> Pairs
Lecture 18 - A P2P Distributed File System
Lecture 19 - Storage Space Problem and Incentives to Share Storage
Lecture 20 - P2P Nodes Communications Challenges in Heterogeneous Network Environments
Lecture 21 - P2P Overlaid Multicast
Lecture 22 - P2P Overlaid Multicast
Lecture 23 - A Design of P2P Email System
Lecture 24 - P2P Mailing List Services
Lecture 25 - P2P Mailing List Services
Lecture 26 - P2P Web
Lecture 27 - P2P Web Search Engine
Lecture 28 - P2P Internet
Lecture 29 - P2P in Blockchain

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Lecture 30 - P2P Anonymous Communication
Lecture 31 - The Anonymous Communication on the Internet through TOR Network
Lecture 32 - An Introduction To TOR Browser
Lecture 33 - Hidden Services on TOR Network
Lecture 34 - MOOC Wrap-Up

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