

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

NPTEL Video Course - Computer Science and Engineering - NOC:Distributed Systems

Subject Co-ordinator - Dr. Rajiv Misra

Co-ordinating Institute - IIT - Patna

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

- Lecture 1 - Introduction to Distributed Systems
- Lecture 2 - Basic Algorithms in Message Passing System
- Lecture 3 - Leader Election in Rings
- Lecture 4 - Distributed Models of Computation, Causality and Logical Time
- Lecture 5 - Size of Vector Clock, Matrix Clocks, Virtual Time and Physical Clock Synchronization
- Lecture 6 - Global State and Snapshot Recording Algorithms
- Lecture 7 - Distributed Mutual Exclusion and Non-Token based Approaches
- Lecture 8 - Quorum Based Distributed Mutual Exclusion Approaches
- Lecture 9 - Token Based Distributed Mutual Exclusion Approaches
- Lecture 10 - Consensus and Agreement Algorithms
- Lecture 11 - Checkpointing and Rollback Recovery
- Lecture 12 - Deadlock Detection in Distributed Systems
- Lecture 13 - Distributed Shared Memory
- Lecture 14 - Distributed Minimum Spanning Tree
- Lecture 15 - Termination Detection in Distributed System
- Lecture 16 - Message Ordering and Group Communication
- Lecture 17 - Self-Stabilization
- Lecture 18 - Case Study 1 - Distributed Randomized Algorithms
- Lecture 19 - Case Study 2 - Peer-to-Peer Computing and Structured Overlay Network
- Lecture 20 - Case Study 3 - The Google File System (GFS)
- Lecture 21 - Case Study 4 - MapReduce
- Lecture 22 - Case Study 5 - HDFS
- Lecture 23 - Case Study 6 - Spark
- Lecture 24 - Case Study 7 - Distributed Algorithms for Sensor Networks
- Lecture 25 - Case Study 8 - Authentication in Distributed Systems
- Lecture 26 - Case Study 9 - Bitcoin
- Lecture 27 - Case Study 10 - BlockChain Technology

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