

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

NPTEL Video Course - Computer Science and Engineering - NOC:Blockchain and its Applications

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Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - The Model of Decentralization
- Lecture 2 - What is Blockchain
- Lecture 3 - Basic Cryptographic Primitives - I
- Lecture 4 - Basic Cryptographic Primitives - II
- Lecture 5 - Basic Cryptographic Primitives - III
- Lecture 6 - Basic Cryptographic Primitives - IV
- Lecture 7 - Basic Cryptographic Primitives - V
- Lecture 8 - Distributed Systems for Decentralization - The Beginning
- Lecture 9 - The Evolution of Cryptocurrencies
- Lecture 10 - Open Consensus and Bitcoin
- Lecture 11 - Bitcoin Mining and Beyond
- Lecture 12 - Smart Contracts and the Permissioned Models of Blockchain
- Lecture 13 - Blockchain Elements - I
- Lecture 14 - Blockchain Elements - II
- Lecture 15 - Blockchain Elements - III
- Lecture 16 - Blockchain Elements - IV
- Lecture 17 - Blockchain Elements - V
- Lecture 18 - Permissionless Model and Open Consensus
- Lecture 19 - Nakamoto Consensus (Proof of Work)
- Lecture 20 - Limitations of PoW: Forking and Security
- Lecture 21 - Beyond PoW
- Lecture 22 - Ethereum 1
- Lecture 23 - Ethereum 2
- Lecture 24 - Ethereum 3
- Lecture 25 - Ethereum 4
- Lecture 26 - Consensus for Permissioned Models
- Lecture 27 - State Machine Replication as Distributed Consensus
- Lecture 28 - Paxos
- Lecture 29 - Paxos - Safety and Liveness

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- Lecture 30 - Byzantine Faults
- Lecture 31 - Byzantine Agreement Protocols
- Lecture 32 - Safety and Liveness of PBFT
- Lecture 33 - Enterprise Blockchains
- Lecture 34 - Hyperledger Fabric 1
- Lecture 35 - Hyperledger Fabric 2
- Lecture 36 - Hyperledger Fabric 3
- Lecture 37 - Hyperledger Fabric 4
- Lecture 38 - Consensus Scalability
- Lecture 39 - Bitcoin-NG
- Lecture 40 - Collective Signing (CoSi)
- Lecture 41 - ByzCoin
- Lecture 42 - Algorand
- Lecture 43 - Identity Management - I
- Lecture 44 - Identity Management - II
- Lecture 45 - Identity Management - III
- Lecture 46 - Blockchain Interoperability - I
- Lecture 47 - Blockchain Interoperability - II
- Lecture 48 - Blockchain Interoperability - III
- Lecture 49 - Hyperledger Indy - I
- Lecture 50 - Hyperledger Indy - II
- Lecture 51 - Hyperledger Aries
- Lecture 52 - Blockchain Security - I
- Lecture 53 - Blockchain Security - II
- Lecture 54 - Blockchain Security - III
- Lecture 55 - Use Cases
- Lecture 56 - A Potential Use Case From a Critics Perspective
- Lecture 57 - Blockchain in Financial Services
- Lecture 58 - Public Sector Use Cases
- Lecture 59 - Blockchain for Decentralized Marketplace - Part 1
- Lecture 60 - Blockchain for Decentralized Marketplace - Part 2