

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

NPTEL Video Course - Computer Science and Engineering - Computer Architecture (Dr. Mainak Chaudhuri)

Subject Co-ordinator - Dr. Mainak Chaudhuri

Co-ordinating Institute - IIT - Kanpur

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

- Lecture 1 - Introduction, Amdahl's law, CPI equation
- Lecture 2 - CPI equation, research practices, instruction set architecture
- Lecture 3 - Instruction set architecture
- Lecture 4 - Instruction set architecture
- Lecture 5 - Instruction set architecture, case study with MIPS-I
- Lecture 6 - Case study with MIPS-I
- Lecture 7 - Case study with MIPS-I
- Lecture 8 - Binary instrumentation for architectural studies
- Lecture 9 - Binary instrumentation for architectural studies
- Lecture 10 - Basic pipelining, branch prediction
- Lecture 11 - Basic pipelining, branch prediction
- Lecture 12 - Basic pipelining, branch prediction
- Lecture 13 - Basic pipelining, branch prediction
- Lecture 14 - Basic pipelining, branch prediction
- Lecture 15 - Basic pipelining, branch prediction
- Lecture 16 - Basic pipelining, branch prediction
- Lecture 17 - Basic pipelining, branch prediction
- Lecture 18 - Basic pipelining, branch prediction
- Lecture 19 - Basic pipelining, branch prediction
- Lecture 20 - Dynamic scheduling, speculative execution
- Lecture 21 - Dynamic scheduling, speculative execution
- Lecture 22 - Dynamic scheduling, speculative execution
- Lecture 23 - Dynamic scheduling, speculative execution
- Lecture 24 - Dynamic scheduling, speculative execution
- Lecture 25 - Virtual memory and caches
- Lecture 26 - Virtual memory and caches
- Lecture 27 - Virtual memory and caches
- Lecture 28 - Topics in memory system, DRAM and SRAM technology
- Lecture 29 - Topics in memory system, DRAM and SRAM technology

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- Lecture 30 - Topics in memory system, DRAM and SRAM technology
- Lecture 31 - Case study
- Lecture 32 - Case study
- Lecture 33 - Case study
- Lecture 34 - Case study
- Lecture 35 - Input/Output
- Lecture 36 - Simultaneous multithreading, multi-cores