

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

NPTEL Video Course - Computer Science and Engineering - Parallel Computing

Subject Co-ordinator - Dr. Subodh Kumar

Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Introduction
- Lecture 2 - Parallel Programming Paradigms
- Lecture 3 - Parallel Architecture
- Lecture 4 - Parallel Architecture (case studies)
- Lecture 5 - Open MP
- Lecture 6 - Open MP (Continued.)
- Lecture 7 - Open MP (Continued..)
- Lecture 8 - Open MP & PRAM Model of Computation
- Lecture 9 - PRAM
- Lecture 10 - Models of Parallel Computation, Complexity
- Lecture 11 - Memory Consistency
- Lecture 12 - Memory Consistency & Performance Issues
- Lecture 13 - Parallel Program Design
- Lecture 14 - Shared Memory & Message Passing
- Lecture 15 - MPI
- Lecture 16 - MPI (Continued.)
- Lecture 17 - MPI (Continued..)
- Lecture 18 - Algorithmic Techniques
- Lecture 19 - Algorithmic Techniques (Continued.)
- Lecture 20 - Algorithmic Techniques (Continued..)
- Lecture 21 - CUDA
- Lecture 22 - CUDA (Continued.)
- Lecture 23 - CUDA (Continued..)
- Lecture 24 - CUDA (Continued...)
- Lecture 25 - CUDA (Continued....)
- Lecture 26 - CUDA (Continued.....)
- Lecture 27 - CUDA (Continued.....)
- Lecture 28 - Algorithms, Merging & Sorting
- Lecture 29 - Algorithms, Merging & Sorting (Continued.)

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- Lecture 30 - Algorithms, Merging & Sorting (Continued..)
- Lecture 31 - Algorithms, Merging & Sorting (Continued...)
- Lecture 32 - Algorithms, Merging & Sorting (Continued....)
- Lecture 33 - Lower Bounds Lock Free Synchronization, Load Stealing
- Lecture 34 - Lock Free Synchronization, Graph Algorithms