

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

NPTEL Video Course - Computer Science and Engineering - NOC:GPU Architectures and Programming

Subject Co-ordinator - Prof. Soumyajit Dey

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Review of basic COA w.r.t. performance
- Lecture 2 - Review of basic COA w.r.t. performance
- Lecture 3 - Review of basic COA w.r.t. performance
- Lecture 4 - Review of basic COA w.r.t. performance
- Lecture 5 - Intro to GPU architectures
- Lecture 6 - Intro to GPU architectures
- Lecture 7 - Intro to GPU architectures
- Lecture 8 - Intro to GPU architectures
- Lecture 9 - Intro to CUDA programming
- Lecture 10 - Intro to CUDA programming (Continued...)
- Lecture 11 - Intro to CUDA programming (Continued...)
- Lecture 12 - Intro to CUDA programming (Continued...)
- Lecture 13 - Multi-dimensional mapping of dataspace; Synchronization
- Lecture 14 - Multi-dimensional mapping of dataspace; Synchronization (Continued...)
- Lecture 15 - Multi-dimensional mapping of dataspace; Synchronization (Continued...)
- Lecture 16 - Warp Scheduling and Divergence
- Lecture 17 - Warp Scheduling and Divergence (Continued...)
- Lecture 18 - Warp Scheduling and Divergence (Continued...)
- Lecture 19 - Memory Access Coalescing
- Lecture 20 - Memory Access Coalescing (Continued...)
- Lecture 21 - Memory Access Coalescing (Continued...)
- Lecture 22 - Memory Access Coalescing (Continued...)
- Lecture 23 - Memory Access Coalescing (Continued...)
- Lecture 24 - Memory Access Coalescing (Continued...)
- Lecture 25 - Memory Access Coalescing (Continued...)
- Lecture 26 - Memory Access Coalescing (Continued...)
- Lecture 27 - Memory Access Coalescing (Continued...)
- Lecture 28 - Optimizing Reduction Kernels
- Lecture 29 - Optimizing Reduction Kernels (Continued...)

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- Lecture 30 - Optimizing Reduction Kernels (Continued...)
- Lecture 31 - Optimizing Reduction Kernels (Continued...)
- Lecture 32 - Optimizing Reduction Kernels (Continued...)
- Lecture 33 - Optimizing Reduction Kernels (Continued...)
- Lecture 34 - Optimizing Reduction Kernels (Continued...)
- Lecture 35 - Kernel Fusion, Thread and Block Coarsening
- Lecture 36 - Kernel Fusion, Thread and Block Coarsening (Continued...)
- Lecture 37 - Kernel Fusion, Thread and Block Coarsening (Continued...)
- Lecture 38 - Kernel Fusion, Thread and Block Coarsening (Continued...)
- Lecture 39 - Kernel Fusion, Thread and Block Coarsening (Continued...)
- Lecture 40 - Kernel Fusion, Thread and Block Coarsening (Continued...)
- Lecture 41 - OpenCL - Runtime System
- Lecture 42 - OpenCL - Runtime System (Continued...)
- Lecture 43 - OpenCL - Runtime System (Continued...)
- Lecture 44 - OpenCL - Runtime System (Continued...)
- Lecture 45 - OpenCL - Runtime System (Continued...)
- Lecture 46 - OpenCL - Runtime System (Continued...)
- Lecture 47 - OpenCL - Runtime System (Continued...)
- Lecture 48 - OpenCL - Heterogeneous Computing
- Lecture 49 - OpenCL - Heterogeneous Computing (Continued...)
- Lecture 50 - OpenCL - Heterogeneous Computing (Continued...)
- Lecture 51 - OpenCL - Heterogeneous Computing (Continued...)
- Lecture 52 - OpenCL - Heterogeneous Computing (Continued...)
- Lecture 53 - OpenCL - Heterogeneous Computing (Continued...)
- Lecture 54 - Efficient Neural Network Training/Inferencing
- Lecture 55 - Efficient Neural Network Training/Inferencing (Continued...)
- Lecture 56 - Efficient Neural Network Training/Inferencing (Continued...)
- Lecture 57 - Efficient Neural Network Training/Inferencing (Continued...)
- Lecture 58 - Efficient Neural Network Training/Inferencing (Continued...)
- Lecture 59 - Efficient Neural Network Training/Inferencing (Continued...)
- Lecture 60 - Efficient Neural Network Training/Inferencing (Continued...)
- Lecture 61 - Efficient Neural Network Training/Inferencing (Continued...)
- Lecture 62 - Efficient Neural Network Training/Inferencing (Continued...)
- Lecture 63 - Efficient Neural Network Training/Inferencing (Continued...)