Mindluster Platform

About the course Interconnection Network Design

Interconnection Network course in hindi, in this course we will learn about the design, operation, and optimization of interconnection networks in computer systems and data centers.

Computer Science Category's Courses

Course Lesson(38)

Lesson 1 : **Parallel Algorithms Intro video**

Lesson 2 : **Lec 1 Shared Memory Models 1**

Lesson 3 : **Lec 2 Shared Memory Models 2**

Lesson 4 : **Lec 3 Interconnection Networks**

Lesson 5 : **Lec 4 Cost and Optimality**

Lesson 6 : **Lec 5 Basic Techniques 1**

Lesson 7 : **Lec 6 Basic Techniques 2**

Lesson 8 : **Lec 7 Basic Techniques 3**

Lesson 9 : **Lec 8 Basic Techniques 4**

Lesson 10 : **Lec 9 Basic Techniques 5**

Lesson 11 : **Lec 10 Odd Even Merge Sort OEMS**

Lesson 12 : **Lec 11 OEMS Bitonic Sort Merge Sort BSMS**

Lesson 13 : **Lec 12 BSMS Optimal List Colouring**

Lesson 14 : **Lec 13 Description**

Lesson 15 : **Lec 14 Analysis**

Lesson 16 : **Lec 15 Applications**

Lesson 17 : **Lec 16 Applications**

Lesson 18 : **Lec 17 Fast optimal merge algorithm**

Lesson 19 : **Lec 18 High level Description**

Lesson 20 : **Lec19 Cole s Merge Sort Details**

Lesson 21 : **Lec20 Analysis of Cole s Merge Sort Lower bound for sorting**

Lesson 22 : **Lec21 Sorting Lower bound Connected Components**

Lesson 23 : **Lec 22 Connected Components CREW**

Lesson 24 : **Lec 23 Connected Components Vertex Colouring**

Lesson 25 : **Lec 24 Sorting on a 2D mesh**

Lesson 26 : **Lec 25 Sorting on a 2D mesh**

Lesson 27 : **Lec 26 Sorting Offline routing on a 2D mesh**

Lesson 28 : **Lec 27 Sorting on a 3D mesh**

Lesson 29 : **Lec 28 Mesh of Trees Hypercube**

Lesson 30 : **Lec 29 Hypercube cont d**

Lesson 31 : **Lec 30 Hypercube cont d butterfly network**

Lesson 32 : **Lec 31 Butterfly CCC and Benes Networks**

Lesson 33 : **Lec 32 Butterfly CCC and Benes Networks**

Lesson 34 : **Lec 33 Shuffle Exchange Graphs de Bruijn Graphs**

Lesson 35 : **Lec 34 SEG dBG cont d**

Lesson 36 : **Lec 35 Circuit Value Problem is P complete for NC reductions**

Lesson 37 : **Lec 36 Ordered DFS is P complete for NC reductions**

Lesson 38 : **Lec 37 Max Flow is P complete for NC reductions**

Related courses

Linear Algebra for Computer Scientists

Insertion Sort

Bubble Sort

GCSE Computer Science

Random Access Memory

Binary Trees

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