

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

NPTEL Video Course - Computer Science and Engineering - Computational Geometry

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Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Introduction
- Lecture 2 - Visibility Problems
- Lecture 3 - 2D Maxima
- Lecture 4 - Line Sweep Method
- Lecture 5 - Segment Intersection Problem
- Lecture 6 - Line Sweep
- Lecture 7 - Convex Hull
- Lecture 8 - Convex Hull Contd
- Lecture 9 - Quick Hull
- Lecture 10 - More Convex Hull Algorithms
- Lecture 11 - Intersection of Half Planes and Duality
- Lecture 12 - Intersection of Half Planes and Duality Contd
- Lecture 13 - Lower Bounds
- Lecture 14 - Planar Point Location
- Lecture 15 - Point Location and Triangulation Contd...
- Lecture 16 - Triangulation of Arbitrary Polygon
- Lecture 17 - Voronoi Diagram
- Lecture 18 - Voronoi Diagram Construction
- Lecture 19 - Delaunay Triangulation
- Lecture 20 - Quick sort and Backward Analysis
- Lecture 21 - Generalized RIC
- Lecture 22 - RIC Continued
- Lecture 23 - Arrangements
- Lecture 24 - Zone Theorem and Application
- Lecture 25 - Levels
- Lecture 26 - Range Searching
- Lecture 27 - Orthogonal Range searching
- Lecture 28 - Priority Search Trees
- Lecture 29 - Non - Orthogonal Range Searching

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- Lecture 30 - Half - Plane Range Query
- Lecture 31 - Well Separated Partitioning
- Lecture 32 - Quadtrees Epsilon -WSPD
- Lecture 33 - Construction of Epsilon - WSPD
- Lecture 34 - Epsilon - WSPD to Geometric Spanner
- Lecture 35 - Epsilon-Nets & VC Dimension
- Lecture 36 - Epsilon-Nets & VC Dimension contd
- Lecture 37 - Geometric Set Cover
- Lecture 38 - Geometric Set Cover (with Bounded VC Dimension)
- Lecture 39 - Shape Representation
- Lecture 40 - Shape Comparison