NPTEL Video Course - Computer Science and Engineering - NOC:Getting Started with Competitive Programming

Subject Co-ordinator - Prof. Neeldhara Misra

Co-ordinating Institute - IIT - Gandhinagar

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

Lecture 29 - SSSP - Overview BFS Revisited
Lecture 30 - SSSP and Dijkstra's Algorithm
Lecture 31 - Sending Email
Lecture 32 - SSSP and Modified Dijkstra
Lecture 33 - SSSP with Negative Cycles - Bellman-Ford
Lecture 34 - Wormholes
Lecture 35 - APSP and Floyd-Warshall
Lecture 36 - Page Hopping
Lecture 37 - Introduction to MSTs
Lecture 38 - Prim's Algorithm
Lecture 39 - Kruskal's Algorithm
Lecture 40 - Cherries Mesh
Lecture 41 - Heirarchy
Lecture 42 - Island Hopping
Lecture 43 - Introduction to MaxFlow
Lecture 44 - Ford-Fulkerson for MaxFlow
Lecture 45 - Implementing Edmonds-Karp
Lecture 46 - Maximum Matching via MaxFlow
Lecture 47 - Sport Elimination via MaxFlow
Lecture 48 - Maxflow-Mincut Duality
Lecture 49 - Police Chase
Lecture 50 - Sam I AM and Vertex Covers
Lecture 51 - Top-Down Dynamic Programming with Frog 1 - Part A
Lecture 52 - Top-Down Dynamic Programming with Frog 1 - Part B
Lecture 53 - Bottom-Up Dynamic Programming with Dice Combinations