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Bipartite matching. Can solve via reduction to maximum flow. Flow. During Ford-Fulkerson, all residual capacities and flows are 0-1; flow corresponds to edges in a matching M. Residual graph G M simplifies to: \square If $(x, y) \notin M$, then (x, y) is in G M. \square If $(x, y) \in M$, then (y, x) is in G M. Augmenting path simplifies to:

assignment problem input-queued switching

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J. Kleinberg, E. Tardos. Disjoint paths in densely embedded graphs. Proc. 36th IEEE Symposium on Foundations of Computer Science, 1995. J. Kleinberg, E. Tardos. Approximations for the disjoint paths problem in high-diameter planar networks. Proc. 27th ACM Symposium on Theory of Computing, 1995. J. Kleinberg.

Jon Kleinberg's Homepage

Tardos's research interests are focused on the design and analysis of ... 7 Network Flow 337 7.1 The Maximum-Flow Problem and the Ford-Fulkerson Algorithm 338 7.2 Maximum Flows and Minimum Cuts in a Network 346 ... not just provide solutions to well-posed problems; they form the language that ...

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Lecture Slides for Algorithm Design These are a revised version of the lecture slides that accompany the textbook Algorithm Design by Jon Kleinberg and Éva Tardos. Here are the original and official version of the slides, distributed by Pearson.

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Greedy algorithms are algorithms designed using an intuitive rule of thumb, which can be proven to lead to optimal solutions. In these lectures, several examples of problems and such algorithms are given to illustrate this general concept.

3. Greedy algorithms - TU Delft OCW

David Kempe, Jon Kleinberg, Éva Tardos: Influential Nodes in a Diffusion Model for Social Networks. InProceedings of ICALP 2005, Lisboa, Portugal. on Kleinberg, Sid Suri and Eva Tardos, Strategic Network Formation with Structural Holes, in the proceedings of the ACM Conference on Electronic Commerce 2008.

Éva Tardos

Companion Website <http://www.cs.princeton.edu/~wayne/kleinberg-tardos/>. Algorithm Design introduces algorithms by looking at the real-world problems that motivate them. The book teaches students a range of design and analysis techniques for problems that arise in computing applications. The text encourages an understanding of the algorithm design process and an appreciation of the role of algorithms in the broader field of computer science.

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Pearson - Algorithm Design - Jon Kleinberg & Éva Tardos

A number of problems in relational Artificial Intelligence can be viewed as Stochastic Constraint Optimization Problems (SCOPs). These are constraint optimization problems that involve objectives or constraints with a stochastic component. Building on the recently proposed language SC-ProbLog for modeling SCOPs, we propose a new method for solving these problems. Earlier methods used ...

Stochastic Constraint Optimization using Propagation on ...

Based on Section 7.5 of Algorithm Design by Kleinberg & Tardos. Network Flows s u v t x w 20 10 30 20 5 30 10 20 10 10 5 15 15 5 10 The network ow problem is itself interesting. But even more interesting is how you can use it to solve many problems that don't involve ows or even networks. Bipartite Graphs

CMSC 451: Maximum Bipartite Matching

(a) List all the minimum s-t cuts in the flow network pictured in Figure 1. The capacity of each edge appears as a label next to the edge. (b) What is the minimum capacity of an s-t cut in the flow network in Figure 2? Again, the capacity of each edge appears as a label next to the edge. Figure 1: What are the minimum s-t cuts in this flow network?. Figure 2: What is the minimum capacity of an ...

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Biography. Éva Tardos received her Dipl.Math. in 1981 , and her Ph.D. 1984, from Eötvös University , Budapest, Hungary . She joined Cornell in 1989, and was Chair of the Department of Computer Science 2006-2010.

Éva Tardos | Cornell Engineering

There is no Homework 8. However, if you want some practice on Minimum Cut and Maximum Flow, here are some practice problems (with solutions) from Kleinberg and Tardos: Solved exercise 1 here on randomized algorithms in graphs and Solved exercises 1 and 2 here on min-cut/max-flow. Submission Instructions and Policies

CS 161: Design and Analysis of Algorithms, Spring 2017

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