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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: □If (x, y) ∉ M, then (x, y) is in G M. □If (x, y) ∈ M, then (y, x) is in G M. Augmenting path simplifies to:

assignment problem input-queued switching

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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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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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