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Algorithmic design patterns. rì Greedy. rì Divide-and-conquer. rì Dynamic programming. rì Network flow. rì Randomization. Randomization. Allow fair coin flip in unit time. Why randomize? Can lead to simplest, fastest, or only known algorithm for a particular problem. Ex. Symmetry-breaking protocols, graph algorithms, quicksort, hashing,

rì Network flow. 13. R A

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Kleinberg & Tardos, Algorithm Design | Pearson

A tentative list of topics includes scheduling problems, minimum spanning tree problems, data compression, network flow, NP and computational intractability, approximation algorithms, randomized algorithms, sublinear algorithms. Prerequisites: Mathematical maturity. Undergraduate algorithms (CS 381).

CS580 Algorithm Design, Analysis, And Implementation

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P. Klein, S. Plotkin, C. Stein and E. Tardos, Faster approximation algorithms for the unit capacity concurrent flow problem with applications to routing and finding sparse cuts. SIAM Journal on Computing, 23/3, 1994 ,. 466-487. Preliminary version has appeared in the proceedings of the 22nd Annual ACM Symposium on the Theory of Computing (1990 ...

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Kleinberg & Tardos, Algorithm Design: International ...

Algorithm design. J Kleinberg, E Tardos. Pearson Education India, 2006. 2241: 2006: ... Fast approximation algorithms for multicommodity flow problems. T Leighton, F Makedon, S Plotkin, C Stein, E Tardos, S Tragoudas. Journal of Computer and System Sciences 50 (2), 228-243, 1995. 316: 1995: Improved approximation algorithms for network design ...

Eva Tardos - Google Scholar

This review is for the Kindle edition of "Algorithm Design" by Kleinberg and Tardos Algorithm Design This book is wonderfully organized. I used it for an Algorithms course and it's just very well laid out, with a nice progression of topics. If you want to gain a good "overall" picture of algorithms, this book is perfect.

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