

A List of Publications

Ming-Yang Kao
Department of Electrical Engineering and Computer Science
Northwestern University
2145 Sheridan Road, Room M324
Evanston, IL 60208
email: kao@northwestern.edu; <http://www.cs.northwestern.edu/~kao>
(o) 847-230-9867

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• Books, Journal Issues, and Conference Proceedings

- [1] M. Y. Kao, editor. *Encyclopedia of Algorithms*. Springer, 1st edition, 2008.
- [2] M. Y. Kao and X. Y. Li, editors. *Proceedings of the 3rd Annual International Conference on Algorithmic Aspects in Information and Management*, volume 4508 of *Lecture Notes in Computer Science*, Portland, Oregon, U.S.A., June 2007. Springer-Verlag.
- [3] J. K. Hwang, C. T. Sun, W. L. Hsu, and M. Y. Kao, editors. *Special Issue on Bioinformatics*. *Journal of Information Science and Engineering*, 19(6), 2003.
- [4] W. L. Hsu and M. Y. Kao, editors. *Special Issue for the 4th Annual International Computing and Combinatorics Conference*. *Theoretical Computer Science*, 261(2), 2001.
- [5] D. Gusfield and M. Y. Kao, editors. *Special Issue on Computational Biology*. *Algorithmica*, 25(2/3), October/November 1999.
- [6] M. Y. Kao, A. S. Kyle, and P. Lakner, editors. *Special Issue on Computational Finance*. *Algorithmica*, 25(1), September 1999.
- [7] W. L. Hsu and M. Y. Kao, editors. *Proceedings of the 4th Annual International Computing and Combinatorics Conference*, volume 1449 of *Lecture Notes in Computer Science*, Taipei, Taiwan, Republic of China, August 1998. Springer-Verlag.

• Conference Invited Talks and Book Chapters

- [8] B. DasGupta, M. Y. Kao, and I. Mandoiu. Algorithmic issues in DNA barcoding problems. In M. Elloumi and A. Y. Zomaya, editors, *Algorithms in Computational Molecular Biology: Techniques, Approaches and Applications (Wiley Series in Bioinformatics)*. Wiley Interscience, Hoboken, NJ, 2009. To appear.
- [9] B. DasGupta and M. Y. Kao. Efficient combinatorial algorithms for DNA sequence processing. In I. Mandoiu and A. Zelikovsky, editors, *Bioinformatics Algorithms: Techniques and Applications*, pages 223–239. Wiley Interscience, Hoboken, NJ, 2008.
- [10] M. Y. Kao. Algorithmic DNA self-assembly. In S.-W. Cheng and C. K. Poon, editors, *Lecture Notes in Computer Science 4041: Proceedings of the 2nd International Conference on Algorithmic Aspects in Information and Management*, page 10. Springer-Verlag, New York, NY, 2006.

- [11] K. Akcoglu, J. Aspnes, B. DasGupta, and M. Y. Kao. Opportunity cost algorithms for combinatorial auctions. In E. J. Kontoghiorghes, B. Rustem, and S. Siokos, editors, *Applied Optimization 74: Computational Methods in Decision-Making, Economics and Finance*, pages 455–479. Kluwer Academic Publishers, Dordrecht, 2002.
- [12] M. Y. Kao, A. Nolte, and S. R. Tate. The risk profile problem for stock portfolio optimization. In E. J. Kontoghiorghes, B. Rustem, and S. Siokos, editors, *Applied Optimization 74: Computational Methods in Decision-Making, Economics and Finance*, pages 213–230. Kluwer Academic Publishers, Dordrecht, 2002.

• **Journal Publications**

- [13] B. Fu, M. Y. Kao, and L. Wang. Discovering almost any hidden motif from multiple sequences. *ACM Transactions on Algorithms*, 2009. To appear.
- [14] B. Fu, M. Y. Kao, and L. Wang. Probabilistic analysis of a motif discovery algorithm for multiple sequences. *SIAM Journal on Discrete Mathematics*, 23:1715–1737, 2009.
- [15] M. Y. Kao, M. Sanghi, and R. Schweller. Randomized fast design of short DNA words. *ACM Transactions on Algorithms*, 2009. To appear.
- [16] M. Y. Chan, W. T. Chan, F. Y. L. Chin, S. P. Y. Fung, and M. Y. Kao. Linear-time haplotype inference on pedigrees without recombinations and mating loops. *SIAM Journal on Computing*, 38(6):2179–2197, 2009.
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- [21] P. Berman, B. DasGupta, M. Y. Kao, and J. Wang. On constructing an optimal consensus clustering from multiple clusterings. *Information Processing Letters*, 104(4):137–145, 2007.
- [22] M. Y. Kao, X. Y. Li, and W. Wang. Average case analysis for tree labelling schemes. *Theoretical Computer Science*, 378(3):271–291, 2007.
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- [25] K. Akcoglu, P. Drineas, and M. Y. Kao. Fast universalization of investment strategies. *SIAM Journal on Computing*, 34(1):1–22, 2005.
- [26] P. Berman, B. DasGupta, and M. Y. Kao. Tight approximability results for test set problems in bioinformatics. *Journal of Computer and System Sciences*, 71(2):145–162, 2005.
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