

## A List of Publications

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### • Books, Journal Issues, and Conference Proceedings

- [1] M. Y. Kao, editor. *Encyclopedia of Algorithms*. Springer, 2nd edition, 2016.
- [2] M. Y. Kao, editor. *Encyclopedia of Algorithms*. Springer, 1st edition, 2008.
- [3] 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, USA, June 2007. Springer-Verlag.
- [4] 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.
- [5] 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.
- [6] D. Gusfield and M. Y. Kao, editors. *Special Issue on Computational Biology*. *Algorithmica*, 25(2/3), October/November 1999.
- [7] M. Y. Kao, A. S. Kyle, and P. Lakner, editors. *Special Issue on Computational Finance*. *Algorithmica*, 25(1), September 1999.
- [8] 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

- [9] Mee Yee Chan, Wun-Tat Chan, Francis Y. L. Chin, Stanley P. Y. Fung, and Ming-Yang Kao. Haplotype inference on pedigrees without recombinations. In *Encyclopedia of Algorithms*, pages 894–897. 2016.
- [10] 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)*, chapter 7, pages 129–142. Wiley Interscience, Hoboken, NJ, 2011.

- [11] 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.
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- [13] 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.
- [14] 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**

- [15] A. C. Johnsen, M. Y. Kao, and S. Seki. A manually-checkable proof for the np-hardness of 11-color pattern self-assembly tile set synthesis. *Journal of Combinatorial Optimization*, 33(2):496–529, 2017.
- [16] C. J. Wang and M. Y. Kao. Optimal search for parameters in Monte Carlo simulation for derivative pricing. *European Journal of Operational Research*, 249(2):683–690, 2016.
- [17] Y. C. Tsai, C. L. Lei, J. M. Ho, M. Y. Kao, and S. L. Liao. Outstanding principal as prepayment value: A closed-form formula for mortgage pricing. *Journal of Information Science and Engineering*, 31(3):925–942, 2015.
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