

PUBLICATIONS

Andrew V. Goldberg

BOOKS, PORTIONS OF BOOKS, AND EDITED VOLUMES

- (1) **Parallel Network Flow Algorithms** by A. V. Goldberg, in *Synthesis of Parallel Algorithms*, edited by J. Reif, Morgan-Kaufmann, pages 813–840, 1993.
- (2) **Network Flow Algorithms** by A. V. Goldberg, É. Tardos, and R. E. Tarjan, in *Algorithms and Combinatorics Volume 9: Flows, Paths, and VLSI-Layout*, edited by B. Korte, L. Lovász, H. J. Prömel, and A. Schrijver, Springer-Verlag, pages 101–164, 1990.
- (3) **Proceedings of the Second Workshop on Algorithm Engineering and Experimentation (ALENEX '00)**, A. V. Goldberg, and B.M.E. Moret, eds, 2000, 300pp.

JOURNALS AND EQUIVALENT

- (1) **A Practical Shortest Path Algorithm with Linear Expected Time** by A. V. Goldberg, to appear in *SIAM Journal on Computing*.
- (2) **Maximum Skew-Symmetric Flows and Matchings** by A. V. Goldberg and A. V. Karzanov, *Math. Programming*, Vol. 100, pages 537–568, 2004.
- (3) **Computational Evaluation of Hot Queues** by A. V. Goldberg and C. Silverstein, *The Fifth DIMACS Implementation Challenge* (refereed proceedings), AMS, 2003.
- (4) **Cut Tree Algorithms: An Experimental Study**, by A. V. Goldberg and K. Tsoutsoulouklis, *J. Algorithms*, Vol. 38, pages 51–83, 2001.
- (5) **Negative-Cycle Detection Algorithms** by B. V. Cherkassky and A. V. Goldberg, *Mathematical Programming*, Vol. 85, pages 277–311, 1999.
- (6) **Buckets, Heaps, Lists, and Monotone Priority Queues** by B. V. Cherkassky, A. V. Goldberg, and C. Silverstein, *SIAM Journal on Computing*, Vol. 28, pages 1326–1346, 1999.
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- (10) **Global Price Updates Help** by A. V. Goldberg and R. Kennedy, *SIAM Journal of Discrete Mathematics*, Vol. 10, pages 551–572, 1997.
- (11) **On Implementing Push-Relabel Method for the Maximum Flow Problem** by B. V. Cherkassky and A. V. Goldberg, *Algorithmica*, Vol. 19, pages 390–410, 1997.
- (12) **Implementations of Dijkstra’s Algorithm Based on Multi-Level Buckets** by A. V. Goldberg and C. Silverstein, *Network Optimization* (refereed proceedings),

- Springer Lecture Notes in Economics and Mathematical Systems 450, edited by P. M. Pardalos, D. W. Hearn, and W. W. Hages, pages 292–327, 1997.
- (13) **Scaling Methods for Finding a Maximum Free Multiflow of Minimum Cost** by A. V. Goldberg and A. V. Karzanov, *Mathematics of Operations Research*, Vol. 22, pages 90–109, February 1997.
 - (14) **An Efficient Implementation of a Scaling Minimum-Cost Flow Algorithm** by A. V. Goldberg, *Journal of Algorithms*, Vol. 22, pages 1–29, January 1997.
 - (15) **Strategic Directions for Research in Theory of Computing** by Anne Condon, Faith Fich, Greg N. Frederickson, Andrew V. Goldberg, David S. Johnson, Michael C. Loui, Steven Mahaney, Prabhakar Raghavan, John Savage, Alan Selman, and David B. Shmoys, *ACM Computing Surveys*, Vol. 28, pages 575–590, December 1996.
 - (16) **Path Problems in Skew-Symmetric Graphs** by A. V. Goldberg and A. V. Karzanov, *Combinatorica*, Vol. 16, pages 353–382, September 1996.
 - (17) **Shortest Paths Algorithms: Theory and Experimental Evaluation** by B. V. Cherkassky, A. V. Goldberg, and T. Radzik, *Mathematical Programming*, Vol. 73, pages 129–174, June 1996.
 - (18) **An Efficient Cost Scaling Algorithm for the Assignment Problem** by A. V. Goldberg and R. Kennedy, *Mathematical Programming*, Vol. 71, pages 153–178, December 1995.
 - (19) **Scaling Algorithms for the Shortest Paths Problem** by A. V. Goldberg, *SIAM Journal on Computing*, Vol. 24, pages 494–504, May 1995.
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 - (25) **A Heuristic Improvement of the Bellman-Ford Algorithm** by A. V. Goldberg and T. Radzik, *Applied Mathematics Letters*, Vol. 6, No. 3, pages 3–6, May 1993.
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- (28) **Finding Minimum-Cost Flows by Double-Scaling** by R. K. Ahuja, A. V. Goldberg, J. B. Orlin, and R. E. Tarjan, *Mathematical Programming*, Series A, Vol. 53, pages 243–266, February 1992.
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- (31) **Use of Dynamic Trees in a Network Simplex Algorithm for the Maximum Flow Problem** by A. V. Goldberg, M. D. Grigoriadis, and R. E. Tarjan, *Mathematical Programming*, Series A, Vol. 50, No. 3, pages 277–290, June 1991.
- (32) **Book Review: Flow Algorithms** by G. M. Adel’son-Vel’ski, E. A. Dinits, and A. V. Karzanov by A. V. Goldberg and D. Gusfield, *SIAM Reviews*, Vol. 33, No. 2, pages 306–314, June 1991.
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PAPERS SUBMITTED TO JOURNALS

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- (2) **Better Landmarks within Reach** by A. V. Goldberg, H. Kaplan, and R. F. Werneck, *Workshop on Experimental Algorithms (WEA)*, Rome, Italy, 2007.
- (3) **Point-to-Point Shortest Path Algorithms with Preprocessing** by A. V. Goldberg, Invited Lecture, *Current Trends in Theory and Practice of Computer Science (SOFSEM)*, Harrachov, Czech Republic, 2007.
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