

REFERENCES

- [AMO88] Ahuja, R. K., Mehlhorn, K., Orlin, J. B., and Tarjan, R. E., 1988. “Faster Algorithms for the Shortest Path Problem,” Tech. Report No. 193, Operations Research Center, M.I.T., Cambridge, MA, (also in Journal of ACM, Vol. 37, 1990, pp. 213-223).
- [AMO89] Ahuja, R. K., Magnanti, T. L., and Orlin, J. B., 1989. “Network Flows,” Sloan W. P. No. 2059-88, M.I.T., Cambridge, MA, (also in Handbooks in Operations Research and Management Science, Vol. 1, Optimization, G. L. Nemhauser, A. H. G. Rinnooy-Kan, and M. J. Todd (eds.), North-Holland, Amsterdam, 1989, pp. 211-369).
- [AaM76] Aashtiani, H. A., and Magnanti, T. L., 1976. “Implementing Primal-Dual Network Flow Algorithms,” Working Paper OR-055-76, Operations Research Center, M.I.T., Cambridge, MA.
- [AhO86] Ahuja, R. K., and Orlin, J. B., 1986. “A Fast and Simple Algorithm for the Maximum Flow Problem,” Working paper, M.I.T., Cambridge, MA, (also in Operations Research, Vol. 37, 1989, pp. 748-759).
- [Akg86] Akgul, M., 1986. “Shortest Paths and the Simplex Method,” Tech. Report, Department of Computer Sciences and Operations Research Program, North Carolina State Univ., Raleigh, N.C.
- [BBG77] Bradley, G. H., Brown, G. G., and Graves, G. W., 1977. “Design and Implementation of Large-Scale Primal Transshipment Problems,” Management Science, Vol. 24, pp. 1-38.

- [BCT91] Bertsekas, D. P., Castañon, D. A., and Tsaknakis, H., 1991. "Reverse Auction and the Solution of Inequality Constrained Assignment Problems," Unpublished Report.
- [BGK77] Barr, R., Glover, F., and Klingman, D., 1977. "The Alternating Basis Algorithm for Assignment Problems," *Math. Programming*, Vol. 13, pp. 1-13.
- [BGK78] Barr, R., Glover, F., and Klingman, D., 1978. "Generalized Alternating Path Algorithm for Transportation Problems," *Euro. J. of Operations Research*, Vol. 2, pp. 137-144.
- [BGK79] Barr, R., Glover, F., and Klingman, D., 1979. "Enhancement of Spanning Tree Labeling Procedures for Network Optimization," *INFOR*, Vol. 17, pp. 16-34.
- [BHT87] Bertsekas, D. P., Hossein, P., and Tseng, P., 1987. "Relaxation Methods for Network Flow Problems with Convex Arc Costs," *SIAM J. on Control and Optimization*, Vol. 25, pp. 1219-1243.
- [BJS90] Bazaraa, M. S., Jarvis, J. J., and Sherali, H. D., 1990. *Linear Programming and Network Flows* (2nd edition), Wiley, N. Y.
- [BMP89] Balas, E., Miller, D., Pekny, J., and Toth, P., 1989. "A Parallel Shortest Path Algorithm for the Assignment Problem," *Management Science Report MSRR 552*, Carnegie Mellon Univ., Pittsburgh, PA.
- [BaF88] Bar-Shalom, Y., and Fortman, T. E., 1988. *Tracking and Data Association*, Academic Press, N. Y.
- [BaJ78] Bazaraa, M. S., and Jarvis, J. J., 1978. *Linear Programming and Network Flows*, Wiley, N. Y.
- [Bal85] Balinski, M. L., 1985. "Signature Methods for the Assignment Problem," *Operations Research*, Vol. 33, pp. 527-537.
- [Bal86] Balinski, M. L., 1986. "A Competitive (Dual) Simplex Method for the Assignment Problem," *Math. Programming*, Vol. 34, pp. 125-141.
- [BeC89a] Bertsekas, D. P., and Castañon, D. A., 1989. "The Auction Algorithm for Transportation Problems," *Annals of Operations Research*, Vol. 20, pp. 67-96.
- [BeC89b] Bertsekas, D. P., and Castañon, D. A., 1989. "The Auction Algorithm for the Minimum Cost Network Flow Problem," *Laboratory for Information and Decision Systems Report LIDS-P-1925*, M.I.T., Cambridge, MA.
- [BeC89c] Bertsekas, D. P., and Castañon, D. A., 1989. "Parallel Synchronous and Asynchronous Implementations of the Auction Algorithm," *Alphatech Report*, Burlington, MA, to appear in *Parallel Computing*.
- [BeC90a] Bertsekas, D. P., and Castañon, D. A., 1990. "Parallel Asynchronous

Hungarian Methods for the Assignment Problem,” Report LIDS-P-1997, M.I.T., Cambridge, MA.

[BeC90b] Bertsekas, D. P., and Castañon, D. A., 1990. “Parallel Asynchronous Primal-Dual Methods for the Minimum Cost Flow Problem,” Report LIDS-P-1998, M.I.T., Cambridge, MA.

[BeE87a] Bertsekas, D. P., and El Baz, D., 1987. “Distributed Asynchronous Relaxation Methods for Convex Network Flow Problems,” SIAM J. on Control and Optimization, Vol. 25, pp. 74-85.

[BeE87b] Bertsekas, D. P., and Eckstein, J., 1987. “Distributed Asynchronous Relaxation Methods for Linear Network Flow Problems,” Proc. of IFAC '87, Munich, Germany.

[BeE88] Bertsekas, D. P., and Eckstein, J., 1988. “Dual Coordinate Step Methods for Linear Network Flow Problems,” Math. Programming, Series B, Vol. 42, pp. 203-243.

[BeG62] Berge, C., and Ghouila-Houri, A., 1962. Programming, Games, and Transportation Networks, Wiley, N. Y.

[BeG87] Bertsekas, D. P., and Gallager, R. G., 1987. Data Networks, Prentice-Hall, Englewood Cliffs, N. J.

[BeM73] Bertsekas, D. P., and Mitter, S. K., 1973. “Descent Numerical Methods for Optimization Problems with Nondifferentiable Cost Functions,” SIAM Journal on Control, Vol. 11, pp. 637-652.

[BeT85] Bertsekas, D. P., and Tseng, P., 1985. “Relaxation Methods for Minimum Cost Ordinary and Generalized Network Flow Problems,” Lab. for Information and Decision Systems Report P-1462, M.I.T., Cambridge, MA.; also Operations Research, Vol. 36, 1988, pp. 93-114.

[BeT88] Bertsekas, D. P., and Tseng, P., 1988. “RELAX: A Computer Code for Minimum Cost Network Flow Problems,” Annals of Operations Research, Vol. 13, pp. 127-190.

[BeT89] Bertsekas, D. P., and Tsitsiklis, J. N., 1989. Parallel and Distributed Computation: Numerical Methods, Prentice-Hall, Englewood Cliffs, N. J.

[BeT90] Bertsekas, D. P., and Tseng, P., 1990. “RELAXT-III: A New and Improved Version of the RELAX Code,” Lab. for Information and Decision Systems Report P-1990, M.I.T., Cambridge, MA.

[BeT91] Bertsekas, D. P., and Tsaknakis, H., 1991. Unpublished Work.

[Bel57] Bellman, R., 1957. Dynamic Programming, Princeton Univ. Press, Princeton, N. J.

[Ber79] Bertsekas, D. P., 1979. “A Distributed Algorithm for the Assignment Problem,” Lab. for Information and Decision Systems Working Paper, M.I.T.,

Cambridge, MA.

- [Ber81] Bertsekas, D. P., 1981. "A New Algorithm for the Assignment Problem," *Math. Programming*, Vol. 21, pp. 152-171.
- [Ber82a] Bertsekas, D. P., 1982. *Constrained Optimization and Lagrange Multiplier Methods*, Academic Press, N. Y.
- [Ber82b] Bertsekas, D. P., 1982. "A Unified Framework for Minimum Cost Network Flow Problems," *Laboratory for Information and Decision Systems Report LIDS-P-1245-A*, M.I.T., Cambridge, MA; also in *Math. Programming*, Vol. 32, 1985, pp. 125-145.
- [Ber85] Bertsekas, D. P., 1985. "A Distributed Asynchronous Relaxation Algorithm for the Assignment Problem," *Proc. 24th IEEE Conference on Decision and Control*, Ft Lauderdale, Fla., pp. 1703-1704.
- [Ber86a] Bertsekas, D. P., 1986. "Distributed Asynchronous Relaxation Methods for Linear Network Flow Problems," *Lab. for Information and Decision Systems Report P-1606*, M.I.T., Cambridge, MA.
- [Ber86b] Bertsekas, D. P., 1986. "Distributed Relaxation Methods for Linear Network Flow Problems," *Proceedings of 25th IEEE Conference on Decision and Control*, Athens, Greece, pp. 2101-2106.
- [Ber87] Bertsekas, D. P., 1987. *Dynamic Programming: Deterministic and Stochastic Models*, Prentice-Hall, Englewood Cliffs, N. J.
- [Ber88] Bertsekas, D. P., 1988. "The Auction Algorithm: A Distributed Relaxation Method for the Assignment Problem," *Annals of Operations Research*, Vol. 14, pp. 105-123.
- [Ber90] Bertsekas, D. P., 1990. "An Auction Algorithm for Shortest Paths," *Lab. for Information and Decision Systems Report P-2000*, M.I.T., Cambridge, MA., *SIAM J. on Optimization*, to appear.
- [BJ85] Bland, R. G., and Jensen, D. L., 1985. "On the Computational Behavior of a Polynomial- Time Network Flow Algorithm," *Tech. Report 661*, School of Operations Research and Industrial Engineering, Cornell University.
- [Bla86] Blackman, S. S., 1986. *Multi-Target Tracking with Radar Applications*, Artech House, Dehdam, MA.
- [BuG61] Busacker, R. G., and Gowen, P. J., 1961. "A Procedure for Determining a Family of Minimal-Cost Network Flow Patterns," *O.R.O. Technical Report No. 15*, Operational Research Office, John Hopkins University, Baltimore, MD.
- [BuS65] Busacker, R. G., and Saaty, T. L., 1965. *Finite Graphs and Networks: An Introduction with Applications*, McGraw-Hill, N. Y.
- [CMT88] Carpaneto, G., Martello, S., and Toth, P., 1988. "Algorithms and

Codes for the Assignment Problem,” *Annals of Operations Research*, Vol. 13, pp. 193-223.

[CaS86] Carraresi, P., and Sodini, C., 1986. “An Efficient Algorithm for the Bipartite Matching Problem,” *Eur. J. Operations Research*, Vol. 23, pp. 86-93.

[Cas91] Castañon, D. A., 1991. Private Communication.

[ChZ90] Chajakis, E. D., and Zenios, S. A., 1990. “Synchronous and Asynchronous Implementations of Relaxation Algorithms for Nonlinear Network Optimization,” Report 89-10-07, Decision Sciences Dept., The Wharton School, University of Pennsylvania, Phila., Pa.

[Che77] Cherkasky, R. V., 1977. “Algorithm for Construction of Maximum Flow in Networks with Complexity of $O(V^2\sqrt{E})$ Operations,” *Mathematical Methods of Solution of Economical Problems*, Vol. 7, pp. 112-125.

[Chr75] Christofides, N., 1975. *Graph Theory: An Algorithmic Approach*, Academic Press, N. Y.

[Chv83] Chvatal, V., 1983. *Linear Programming*, W. H. Freeman and Co., N. Y.

[Cun76] Cunningham, W. H., 1979. “A Network Simplex Method,” *Math. Programming*, Vol. 4, pp. 105-116.

[Cun79] Cunningham, W. H., 1979. “Theoretical Properties of the Network Simplex Method,” *Math. of Operations Research*, Vol. 11, pp. 196-208.

[DGK79] Dial, R., Glover, F., Karney, D., and Klingman, D., 1979. “A Computational Analysis of Alternative Algorithms and Labeling Techniques for Finding Shortest Path Trees,” *Networks*, Vol. 9, pp. 215-248.

[DaF56] Dantzig, G. B., and Fulkerson, D. R., 1956. “On the Max-Flow Min-Cut Theorem of Networks,” in H. W. Kuhn and A. W. Tucker (ed.), *Linear Inequalities and Related Systems*, *Annals of Mathematics Study* 38, Princeton University Press, pp. 215-221.

[Dan51] Dantzig, G. B., 1951. “Application of the Simplex Method to a Transportation Problem,” in T. C. Koopmans (ed.), *Activity Analysis of Production and Allocation*, Wiley, pp. 359-373.

[Dan60] Dantzig, G. B., 1960. “On the Shortest Route Problem Through a Network,” *Management Science*, Vol. 6, pp. 187-190.

[Dan63] Dantzig, G. B., 1963. *Linear Programming and Extensions*, Princeton Univ. Press, Princeton, N. J.

[Dan67] Dantzig, G. B., 1967. “All Shortest Routes in a Graph,” in P. Rosensthal (ed.), *Theory of Graphs*, Gordon and Breach, N. Y., pp. 92-92.

- [DeF79] Denardo, E. V., and Fox, B. L., 1979. "Shortest-Route Methods: 1. Reaching, Pruning and Buckets," *Operations Research*, Vol. 27, pp. 161-186.
- [DeP84] Deo, N., and Pang, C., 1984. "Shortest Path Algorithms: Taxonomy and Annotation," *Networks*, Vol. 14, pp. 275-323.
- [Der85] Derigs, U., 1985. "The Shortest Augmenting Path Method for Solving Assignment Problems – Motivation and Computational Experience," *Annals of Operations Research*, Vol. 4, pp. 57-102.
- [Dia69] Dial, R. B., 1969. "Algorithm 360: Shortest Path Forest with Topological Ordering," *Commun. A.C.M.*, Vol. 12, pp. 632-633.
- [Dij59] Dijkstra, E., 1959. "A Note on Two Problems in Connexion with Graphs," *Numerische Mathematik*, Vol. 1, pp. 269-271.
- [Din70] Dinic, E. A., 1970. "Algorithm for Solution of a Problem of Maximum Flow in Networks with Power Estimation," *Soviet Math. Doklady*, Vol. 11, pp. 1277-1280.
- [Dre69] Dreyfus, S. E., 1969. "An Appraisal of Some Shortest-Path Algorithms," *Operations Research*, Vol. 17, pp. 395-412.
- [EFS56] Elias, P., Feinstein, A., and Shannon, C. E., 1956. "Note on Maximum Flow Through a Network," *IRE Trans. Infor. Theory*, Vol. IT-2, pp. 117-119.
- [EdK72] Edmonds, J., and Karp, R. M., 1972. "Theoretical Improvements in Algorithmic Efficiency for Network Flow Problems," *Journal of the ACM*, Vol. 19, pp. 248-264.
- [Ege31] Egervary, J., 1931. "Matrixok Kombinatoricus Tulajonsagairol," *Mat. Es Fiz. Lapok*, Vol. 38, pp. 16-28.
- [ElB89] El Baz, D., 1989. "A Computational Experience with Distributed Asynchronous Iterative Methods for Convex Network Flow Problems," *Proc. of the 28th IEEE Conference on Decision and Control*, Tampa, FL, pp. 590-591.
- [Eng82] Engquist, M., 1982. "A Successive Shortest Path algorithm for the Assignment Problem," *INFOR*, Vol. 20, pp. 370-384.
- [FNP81] Florian, M. S., Nguyen, S., and Pallottino, S., 1981. "A Dual Simplex Algorithm for Finding All Shortest Paths," *Networks*, Vol. 11, pp. 367-378.
- [Flo62] Floyd, R. W., 1962. "Algorithm 97: Shortest Path," *Comm. ACM*, Vol. 5, pp. 345.
- [FoF56a] Ford, L. R., Jr., and Fulkerson, D. R., 1956. "Solving the Transportation Problem," *Management Science*, Vol. 3, pp. 24-32.
- [FoF56b] Ford, L. R., Jr., and Fulkerson, D. R., 1956. "Maximal Flow Through a Network," *Can. Journal of Math.*, Vol. 8, pp. 339-404.

- [FoF57] Ford, L. R., Jr., and Fulkerson, D. R., 1957. "A Primal-Dual Algorithm for the Capacitated Hitchcock Problem," *Naval Res. Logist. Quart.*, Vol. 4, pp. 47-54.
- [FoF62] Ford, L. R., Jr., and Fulkerson, D. R., 1962. *Flows in Networks*, Princeton Univ. Press, Princeton, N. J.
- [For56] Ford, L. R., Jr., 1956. "Network Flow Theory," Report P-923, The Rand Corporation, Santa Monica, Cal.
- [FrF70] Frank, H., and Frisch, I. T., 1970. *Communication, Transmission, and Transportation Networks*, Addison-Wesley, Reading, MA.
- [FrT84] Fredman, M. L., and Tarjan, R. E., 1984. "Fibonacci Heaps and their Uses in Improved Network Optimization Algorithms," *Proc. 25th Annual Symp. on Found. of Comp. Sci.*, pp. 338-346.
- [FuD55] Fulkerson, D. R., and Dantzig, G. B., 1955. "Computation of Maximum Flow in Networks," *Naval Res. Log. Quart.*, Vol. 2, pp. 277-283.
- [GGK83] Gibby, D., Glover, F., Klingman, D., and Mead, M., 1983. "A Comparison of Pivot Selection Rules for Primal Simplex Based Network Codes," *Operations Research Letters*, Vol. 2, pp. 199-202.
- [GGK86a] Glover, F., Glover, R., and Klingman, D., 1986. "The Threshold Shortest Path Algorithm," *Networks*, Vol. 14, No. 1.
- [GGK86b] Glover, F., Glover, R., and Klingman, D., 1986. "Threshold Assignment Algorithm, Math. Programming Study, Vol. 26, pp. 12-37.
- [GHK86] Goldfarb, D., Hao, J., and Kai, S., 1986. "Efficient Shortest Path Simplex Algorithms," *Research Report, Dept. of OR and IE, Columbia University, New York, N. Y.*; also *Operations Research*, Vol. 38, 1990, pp. 624-628.
- [GHK87] Goldfarb, D., Hao, J., and Kai, S., 1987. "Anti-Stalling Pivot Rules for the Network Simplex Algorithm," *Research Report, Dept. of OR and IE, Columbia University, New York, N. Y.*
- [GKK74a] Glover, F., Karney, D., and Klingman, D., 1974. "Implementation and Computational Comparisons of Primal, Dual, and Primal-Dual Computer Codes for Minimum Cost Network Flow Problem," *Networks*, Vol. 4, pp. 191-212.
- [GKK74b] Glover, F., Karney, D., Klingman, D., and Napier, A., 1974. "A Computation Study on Start Procedures, Basis Change Criteria, and Solution Algorithms for Transportation Problems," *Management Science*, Vol. 20, pp. 793-819.
- [GKM84] Glover, F., Klingman, D., Mote, J., and Whitman, D., 1984. "A Primal Simplex Variant for the Maximum Flow Problem," *Navel Res. Logis. Quart.*, Vol. 31, pp. 41-61.

- [GKP85a] Glover, F., Klingman, D., and Phillips, N., 1985. "A New Polynomially Bounded Shortest Path Algorithm," *Operations Research*, Vol. 33, pp. 65-73.
- [GKP85b] Glover, F., Klingman, D., Phillips, N., and Schneider, R. F., 1985. "New Polynomial Shortest Path Algorithms and Their Computational Attributes," *Management Science*, Vol. 31, pp. 1106-1128.
- [GPR82] Gallo, G. S., Pallotino, S., Ruggen, C., and Starchi, G., 1982. "Shortest Paths: A Bibliography," Sofmat Document 81-P1-4-SOFMAT-27, Rome, Italy.
- [GSS77] Gavish, B., Schweitzer, P., and Shlifer, E., 1977. "The Zero Pivot Phenomenon in Transportation Problems and Its Computational Implications," *Math. Programming*, Vol. 12, pp. 226-240.
- [GaN80] Galil, Z., and Naamad, A., 1980. " $O(VE \log^2 V)$ Algorithm for the Maximum Flow Problem," *J. of Comput. Sys. Sci.*, Vol. 21, pp. 203-217.
- [GaP86] Gallo, G. S., and Pallotino, S., 1986. "Shortest Path Methods: A Unified Approach," *Math. Programming Study*, Vol. 26, pp. 38-64.
- [GaP88] Gallo, G. S., and Pallotino, S., 1988. "Shortest Path Algorithms," *Annals of Operations Research*, Vol. 7, pp. 3-79.
- [Gal57] Gale, D., 1957. "A Theorem of Flows in Networks," *Pacific J. Math.*, Vol. 7, pp. 1073-1082.
- [Gal80] Galil, Z., 1980. " $O(V^{5/3}E^{2/3})$ Algorithm for the Maximum Flow Problem," *Acta Informatica*, Vol. 14, pp. 221-242.
- [GoH88] Goldfarb, D., and Hao, J., 1988. "A Primal Simplex Algorithm that Solves the Maximum Flow Problem in At Most nm Pivots and $O(n^2m)$ Time," Technical Report, Dept. of IE and OR, Columbia University, New York.
- [GoM77] Golden, B., and Magnanti, T. L., 1977. "Deterministic Network Optimization: A Bibliography," *Networks*, Vol. 7, pp. 149-183.
- [GoM84] Gondran, M., and Minoux, M., 1984. *Graphs and Algorithms*, Wiley, N. Y.
- [GoR77] Goldfarb, D., and Reid, J. K., 1977. "A Practicable Steepest Edge Simplex Algorithm," *Math. Progr.*, Vol. 12, pp. 361-371.
- [GoT86] Goldberg, A. V., and Tarjan, R. E., 1986. "A New Approach to the Maximum Flow Problem," *Proc. 18th ACM STOC*, pp. 136-146.
- [GoT90] Goldberg, A. V., and Tarjan, R. E., 1990. "Solving Minimum Cost Flow Problems by Successive Approximation," *Math. of Operations Research*, Vol. 15, pp. 430-466.

- [Gol85a] Goldfarb, D., 1985. "Efficient Dual Simplex Algorithms for the Assignment Problem," *Math. Programming*, Vol. 33, pp. 187-203.
- [Gol85b] Goldberg, A. V., 1985. "A New Max-Flow Algorithm," Tech. Mem. MIT/LCS/TM-291, Laboratory for Computer Science, M.I.T., Cambridge, MA.
- [Gol87] Goldberg, A. V., 1987. "Efficient Graph Algorithms for Sequential and Parallel Computers," Tech. Report TR-374, Laboratory for Computer Science, M.I.T., Cambridge, MA.
- [HKS89] Helgason, R. V., Kennington, J. L., and Stewart, B. D., 1989. "Computational Comparison of Sequential and Parallel Algorithms for the One-To-One Shortest-Path Problem," Tech. Report 89-CSE-32, Dept. of Computer Science and Engineering, Southern Methodist Univ., Dallas, TX.
- [Hal56] Hall, M., Jr., 1956. "An Algorithm for Distinct Representatives," *Amer. Math. Monthly*, Vol. 51, pp. 716-717.
- [HeK77] Helgason, R. V., and Kennington, J. L., 1977. "An Efficient Procedure for Implementing a Dual-Simplex Network Flow Algorithm," *AIIE Trans.*, Vol. 9, pp. 63-68.
- [HoK56] Hoffman, A. J., and Kuhn, H. W., 1956. "Systems of Distinct Representatives and Linear Programming," *Amer. Math. Monthly*, Vol. 63, pp. 455-460.
- [Hof60] Hoffman, A. J., 1960. "Some Recent Applications of the Theory of Linear Inequalities to Extremal Combinatorial Analysis," *Proc. Sym. Appl. Math.*, Vol. 10, pp. 113-128.
- [Hu69] Hu, T. C., 1969. *Integer Programming and Network Flows*, Addison-Wesley, Reading, MA.
- [Hun83] Hung, M., 1983. "A Polynomial Simplex Method for the Assignment Problem," *Operations Research*, Vol. 31, pp. 595-600.
- [Iri69] Iri, M., 1969. *Network Flows, Transportation, and Scheduling*, Academic Press, N. Y.
- [JeB80] Jensen, P. A., and Barnes, J. W., 1980. *Network Flow Programming*, Wiley, N. Y.
- [Jew62] Jewell, W. S., 1982. "Optimal Flow Through Networks with Gains," *Operations Research*, Vol. 10, pp. 476-499.
- [JoV86] Jonker, R., and Volgenant, A., 1986. "Improving the Hungarian Assignment Algorithm," *Operations Research Letters*, Vol. 5, pp. 171-175.
- [JoV87] Jonker, R., and Volegnant, A., 1987. "A Shortest Augmenting Path Algorithm for Dense and Sparse Linear Assignment Problems," *Computing*, Vol. 38, pp. 325-340.

- [Joh66] Johnson, E. L., 1966. "Networks and Basic Solutions," *Operations Research*, Vol. 14, pp. 619-624.
- [Joh77] Johnson, D. B., 1977. "Efficient Algorithms for Shortest Paths in Sparse Networks," *J. ACM*, Vol. 24, pp. 1-13.
- [KKZ89] Kempa, D., Kennington, J., and Zaki, H., 1989. "Performance Characteristics of the Jacobi and Gauss-Seidel Versions of the Auction Algorithm on the Alliant FX/8," Report OR-89-008, Dept. of Mech. and Ind. Eng., Univ. of Illinois, Urbana, Ill.
- [KNS74] Klingman, D., Napier, A., and Stutz, J., 1974. "NETGEN - A Program for Generating Large Scale (Un)Capacitated Assignment, Transportation, and Minimum Cost Flow Network Problems," *Management Science*, Vol. 20, pp. 814-822.
- [Kar74] Karzanov, A. V., 1974. "Determining the Maximal Flow in a Network with the Method of Preflows," *Soviet Math Dokl.*, Vol. 15, pp. 1277-1280.
- [KeH80] Kennington, J., and Helgason, R., 1980. *Algorithms for Network Programming*, Wiley, N. Y.
- [Ker81] Kershenbaum, A., 1981. "A Note on Finding Shortest Path Trees," *Networks*, Vol. 11, pp. 399-400.
- [KIM72] Klee, V., and Minty, G. J., 1972. "How Good is the Simplex Algorithm?," in *Inequalities III*, O. Shisha (ed.), Academic Press, N. Y., pp. 159-175.
- [Kle67] Klein, M., 1967. "A Primal Method for Minimal Cost Flow with Applications to the Assignment and Transportation Problems," *Management Science*, Vol. 14, pp. 205-220.
- [Kon31] Konig, D., 1931. "Graphok es Matrixok," *Mat. Es Fiz. Lapok*, Vol. 38, pp. 116-119.
- [Kuh55] Kuhn, H. W., 1955. "The Hungarian Method for the Assignment Problem," *Naval Research Logistics Quarterly*, Vol. 2, pp. 83-97.
- [Law76] Lawler, E., 1976. *Combinatorial Optimization: Networks and Matroids*, Holt, Reinhart, and Winston, N. Y.
- [Lem74] Lemarechal, C., 1974. "An Algorithm for Minimizing Convex Functions," in *Information Processing '74*, J. L. Rosenfeld (ed.), North Holland Publ. Co., Amsterdam, pp. 552-556.
- [Lue69] Luenberger, D. G., 1969. *Optimization by Vector Space Methods*, Wiley, N. Y.
- [Lue84] Luenberger, D. G., 1984. *Linear and Nonlinear Programming*, Addison-Wesley, Reading, MA.

- [MKM78] Malhotra, V. M., Kumar, M. P., and Maheshwari, S. N., 1978. "An $O(|V|^3)$ Algorithm for Finding Maximum Flows in Networks," Inform. Process. Lett., Vol. 7, pp. 277-278.
- [McG83] McGinnis, L. F., 1983. "Implementation and Testing of a Primal-Dual Algorithm for the Assignment Problem," Operations Research, Vol. 31, pp. 277-291.
- [MeD58] Mendelssohn, N. S., and Dulmage, A. L., 1958. "Some Generalizations of Distinct Representatives," Canad. J. Math., Vol. 10, pp. 230-241.
- [Min57] Minty, G. J., 1957. "A Comment on the Shortest Route Problem," Operations Research, Vol. 5, p. 724.
- [Min60] Minty, G. J., 1960. "Monotone Networks," Proc. Roy. Soc. London, A, Vol. 257, pp. 194-212.
- [Min78] Minieka, E., 1978. Optimization Algorithms for Networks and Graphs, Marcel Dekker, N. Y.
- [Mul78a] Mulvey, J., 1978. "Pivot Strategies for Primal-Simplex Network Codes," J. ACM, Vol. 25, pp. 266-270.
- [Mul78b] Mulvey, J., 1978. "Testing a Large-Scale Network Optimization Program," Math. Programming, Vol. 15, pp. 291-314.
- [Mur76] Murty, K. G., 1976. Linear and Combinatorial Programming, Wiley, N. Y.
- [Nic66] Nicholson, T., 1966. "Finding the Shortest Route Between Two Points in a Network", The Computer Journal, Vol. 9, pp. 275-280.
- [OrR70] Ortega, J. M., and Rheinbold, W. C., 1970. Iterative Solution of Nonlinear Equations in Several Variables, Academic Press, N. Y.
- [PaS82] Papadimitriou, C. H., and Steiglitz, K., 1982. Combinatorial Optimization: Algorithms and Complexity, Prentice-Hall, Englewood Cliffs, N. J.
- [Pal84] Pallotino, S., 1984. "Shortest Path Methods: Complexity, Interrelations and New Propositions," Networks, Vol. 14, pp. 257-267.
- [Pap74] Pape, U., 1974. "Implementation and Efficiency of Moore - Algorithms for the Shortest Path Problem," Math. Programming, Vol. 7, pp. 212-222.
- [PhZ88] Phillips, C., and Zenios, S. A., 1988. "Experiences with Large Scale Network Optimization on the Connection Machine," Report 88-11-05, Dept. of Decision Sciences, The Wharton School, Univ. of Pennsylvania, Phil., Penn.
- [Pol91] Polymenakos, L., 1991. "Analysis of Parallel Asynchronous Schemes for the Auction Shortest Path Algorithm," MS Thesis, EECS Dept., M.I.T., Cambridge, MA.

- [Roc70] Rockafellar, R. T., 1970. *Convex Analysis*, Princeton Univ. Press, Princeton, N. J.
- [Roc84] Rockafellar, R. T., 1984. *Network Flows and Monotropic Programming*, Wiley-Interscience, N. Y.
- [Rud76] Rudin, W., 1976. *Real Analysis*, Mc Graw Hill, N. Y.
- [Sch90] Schwartz, B. L., 1990. "A Computational Analysis of the Auction Algorithm," Unpublished Manuscript.
- [ShW81] Shier, D. R., and Witzgall, C., 1981. "Properties of Labeling Methods for Determining Shortest Path Trees," *J. Res. Natl. Bureau of Standards*, Vol. 86, p. 317.
- [SrT73] Srinivasan, V., and Thompson, G. L., 1973. "Benefit-Cost Analysis of Coding Techniques for Primal Transportation Algorithm," *J. ACM*, Vol. 20, pp. 194-213.
- [TBT90] Tseng, P., Bertsekas, D. P., and Tsitsiklis, J. N., 1990. "Partially Asynchronous Parallel Algorithms for Network Flow and Other Problems," *SIAM J. Control and Optimization*, Vol. 28, pp. 678-710.
- [Tab73] Tabourier, Y., 1973. "All Shortest Distances in a Graph: An Improvement to Dantzig's Inductive Algorithm," *Disc. Math.*, Vol. 4, pp. 83-87.
- [TsB87a] Tseng, P., and Bertsekas, D. P., 1987. "Relaxation Methods for Linear Programs," *Mathematics of Operations Research*, Vol. 12, pp. 569-596.
- [TsB87b] Tseng, P., and Bertsekas, D. P., 1987. "Relaxation Methods for Monotropic Programs," *Laboratory for Information and Decision Systems Report P-1697*, M.I.T., Cambridge, MA.; also *Math. Programming*, Vol. 46, 1990, pp. 127-151.
- [Tse86] Tseng, P., 1986. "Relaxation Methods for Monotropic Programming Problems," *PhD Thesis*, Dept. of Electrical Engineering and Operations Research Center, M.I.T., Cambridge, MA.
- [VoR82] Von Randow, R., 1982. *Integer Programming and Related Areas: A Classified Bibliography 1978-1981*, *Lecture Notes in Economics and Mathematical Systems*, Vol. 197, Springer-Verlag, N. Y.
- [VoR85] Von Randow, R., 1985. *Integer Programming and Related Areas: A Classified Bibliography 1982-1984*, *Lecture Notes in Economics and Mathematical Systems*, Vol. 243, Springer-Verlag, N. Y.
- [War62] Warshall, S., 1962. "A Theorem on Boolean Matrices," *J. ACM*, Vol. 9, pp. 11-12.
- [WeZ90] Wein, J., and Zenios, S. A., 1990. "Massively Parallel Auction Algorithms for the Assignment Problem," *Proc. of 3rd Symposium on the Frontiers*

of Massively Parallel Computation, Md.

[WhH60] Whitting, P. D., and Hillier, J. A., 1960. "A Method for Finding the Shortest Route Through a Road Network," *Operations Research Quart.*, Vol. 11, pp. 37-40.

[Wol75] Wolfe, P., 1975. "A Method of Conjugate Subgradients for Minimizing Nondifferentiable Functions," *Math. Programming Study*, Vol. 3, pp. 145-173.

[Zad73a] Zadeh, N., 1973. "A Bad Network Problem for the Simplex Method and Other Minimum Cost Flow Algorithms," *Math. Programming*, Vol. 5, pp. 255-266.

[Zad73b] Zadeh, N., 1973. "More Pathological Examples for Network Flow Problems," *Math. Programming*, Vol. 5, pp. 217-224.

[Zad79] Zadeh, N., 1979. "Near Equivalence of Network Flow Algorithms," Technical Report No. 26, Dept. of Operations Research, Stanford University, CA.

[Zou76] Zoutendijk, G., 1976. *Mathematical Programming Methods*, North-Holland, Amsterdam.

[Zak90] Zaki, H., 1990. "A Comparison of Two Algorithms for the Assignment Problem," Report ORL 90-002, Dept. of Mechanical and Industrial Engineering, Univ. of Illinois, Urbana, Ill.