

References

- [BBS95] Barto, A. G., Bradtke, S. J., and Singh, S. P., 1995. “Learning to Act Using Real-Time Dynamic Programming,” Artificial Intelligence, Vol. 72, pp. 81-138.
- [BCE95] Bertsekas, D. P., Castañon, D. A., Eckstein, J., and Zenios, S., 1995. “Parallel Computing in Network Optimization,” Handbooks in OR and MS, Ball, M. O., Magnanti, T. L., Monma, C. L., and Nemhauser, G. L. (eds.), Vol. 7, North-Holland, Amsterdam, pp. 331-399.
- [BCT93] Bertsekas, D. P., Castañon, D. A., and Tsaknakis, H., 1993. “Reverse Auction and the Solution of Inequality Constrained Assignment Problems,” SIAM J. on Optimization, Vol. 3, pp. 268-299.
- [BFH03] Brenier, Y., Frisch, U., Henon, M., Loeper, G., Matarrese, S., Mohayaee, R., and Sobolevskii, A., 2003. “Reconstruction of the Early Universe as a Convex Optimization Problem,” Monthly Notices of the Royal Astronomical Society, Vol. 346, pp. 501-524.
- [BGM97] Beraldi, P., Guerriero, F., and Musmanno, R., 1997. “Efficient Parallel Algorithms for the Minimum Cost Flow Problem,” Journal of Optimization Theory and Applications, Vol. 95, pp. 501-530.
- [BPS95] Bertsekas, D. P., Pallottino, S., and Scutellà, M. G., 1995. “Polynomial Auction Algorithms for Shortest Paths,” Computational Optimization and Applications, Vol. 4, pp. 99-125.
- [BPT97] Bertsekas, D. P., Polymenakos, L. C. and Tseng, P., 1997. “Epsilon-Relaxation and Auction Methods for Separable Convex Cost Network Flow Problems,” Network Optimization, by P. Pardalos and D. Hearn, Springer, Berlin, pp. 103-126.
- [BPW12] Browne, C., Powley, E., Whitehouse, D., Lucas, L., Cowling, P. I., Rohlfshagen, P., Tavener, S., Perez, D., Samothrakis, S., and Colton, S., 2012. “A Survey of Monte Carlo Tree Search Methods,” IEEE Trans. on Computational Intelligence and AI in Games, Vol. 4, pp. 1-43.
- [BSS08] Bayati, M., Shah, D., and Sharma, M., 2008. “Max-Product for Maximum Weight Matching: Convergence, Correctness, and LP Duality,” IEEE Trans. on Information Theory, Vol. 54, pp. 1241-1251.
- [BeC89] Bertsekas, D. P., and Castañon, D. A., 1989. “The Auction Algorithm for the Transportation Problem,” Annals of Operations Research, Vol. 20, pp. 67-96.

- [BeC91] Bertsekas, D. P., and Castañon, D. A., 1991. “Parallel Synchronous and Asynchronous Implementations of the Auction Algorithm,” Parallel Computing, Vol. 17, pp. 707-732.
- [BeC93] Bertsekas, D. P., and Castañon, D. A., 1993. “A Generic Auction Algorithm for the Minimum Cost Network Flow Problem,” Computational Optimization and Applications, Vol. 2, pp. 229-260.
- [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.
- [BeT89] Bertsekas, D. P., and Tsitsiklis, J. N., 1989. Parallel and Distributed Computation: Numerical Methods, Prentice-Hall, Engl. Cliffs, N. J. (can be downloaded from the author’s website).
- [BeT97] Bertsimas, D., and Tsitsiklis, J. N., 1997. Introduction to Linear Optimization, Athena Scientific, Belmont, MA.
- [Ber79] Bertsekas, D. P., 1979. “A Distributed Algorithm for the Assignment Problem,” Lab. for Information and Decision Systems Report, MIT, May 1979.
- [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.
- [Ber91] Bertsekas, D. P., 1991. “An Auction Algorithm for Shortest Paths,” SIAM J. on Optimization, Vol. 1, pp. 425-447.
- [Ber92] Bertsekas, D. P., 1992. “Auction Algorithms for Network Flow Problems: A Tutorial Introduction,” Computational Optimization and Applications, Vol. 1, pp. 7-66.
- [Ber95a] Bertsekas, D. P., 1995. “An Auction Algorithm for the Max-Flow Problem,” J. of Optimization Theory and Applications, Vol. 87, pp. 69-101.
- [Ber95b] Bertsekas, D. P., 1995. “An Auction/Sequential Shortest Path Algorithm for the Minimum Cost Network Flow Problem,” Report LIDS-P-2146, MIT.
- [Ber98] Bertsekas, D. P., 1998. Network Optimization: Continuous and Discrete Models, Athena Scientific, Belmont, MA (also available on-line from the author’s website).
- [Ber17] Bertsekas, D. P., 2017. Dynamic Programming and Optimal Control, Vol. I, Athena Scientific, Belmont, MA.
- [Ber19] Bertsekas, D. P., 2019. Reinforcement Learning and Optimal Control, Athena Scientific, Belmont, MA.
- [Ber20a] Bertsekas, D. P., 2020. Rollout, Policy Iteration, and Distributed Reinforcement Learning, Athena Scientific, Belmont, MA.
- [Ber20b] Bertsekas, D. P., 2020. “Constrained Multiagent Rollout and Multidimensional Assignment with the Auction Algorithm,” arXiv:2002.07407.
- [Ber22] Bertsekas, D. P., 2022. Lessons from AlphaZero for Optimal, Model Predictive, and Adaptive Control, Athena Scientific, Belmont, MA (also available as an ebook from Google Books, and on-line from the author’s website).
- [BiT22] Bicciato, A., and Torsello, A., 2022. “GAMS: Graph Augmentation with Module Swapping,” Proc. of ICPRAM, pp. 249-255.

- [CLG22] Clark, A., de Las Casas, D., Guy, A., Mensch, A., Paganini, M., Hoffmann, J., Damoc, B., Hechtman, B., Cai, T., Borgeaud, S., and Van Den Driessche, G. B., 2022. “Unified Scaling Laws for Routed Language Models,” Proc. International Conference on Machine Learning, pp. 4057-4086.
- [CeZ97] Censor, Y., and Zenios, S. A., 1997. ‘Parallel Optimization: Theory, Algorithms, and Applications’, Oxford University Press.
- [Gal16] Galichon, A., 2016. Optimal Transport Methods in Economics, Princeton University Press.
- [JME18] Jacobs, M., Merkurjev, E. and Esedoglu, S., 2018. “Auction Dynamics: A Volume Constrained MBO Scheme,” Journal of Computational Physics, Vol. 354, pp. 288-310.
- [KoY94] Kosowsky, J. J., and Yuille, A. L., 1994. “The Invisible Hand Algorithm: Solving the Assignment Problem with Statistical Physics,” Neural Networks, Vol. 7, pp. 477-490.
- [Kor90] Korf, R. E., 1990. “Real-Time Heuristic Search,” Artificial Intelligence, Vol. 42, pp. 189-211.
- [LBD21] Lewis, M., Bhosale, S., Dettmers, T., Goyal, N., and Zettlemoyer, L., 2021. “Base Layers: Simplifying Training of Large, Sparse Models,” Proc. International Conference on Machine Learning, pp. 6265-6274.
- [LaS20] Lattimore, T., and Szepesvari, C., 2020. Bandit Algorithms, Cambridge University Press.
- [MeT21] Merigot, Q., and Thibert, B., 2021. “Optimal Transport: Discretization and Algorithms,” in Handbook of Numerical Analysis, Elsevier, Vol. 22, pp. 133-212.
- [NaL16] Naparstek, O., and Leshem, A., 2016. “Expected Time Complexity of the Auction Algorithm and the Push Relabel Algorithm for Maximum Bipartite Matching on Random Graphs,” Random Structures and Algorithms, Vol. 48, pp. 384-395.
- [PeC19] Peyre, G., and Cuturi, M., 2019. Computational Optimal Transport: With Applications to Data Science. Foundations and Trends in Machine Learning, Vol. 11, pp. 355-607.
- [PoB94] Polymenakos, L. C., and Bertsekas, D. P., 1994. “Parallel Shortest Path Auction Algorithms,” Parallel Computing, Vol. 20, pp. 1221-1247.
- [SGS21] Swiechowski, M., Godlewski, K., Sawicki, B. and Mandziuk, J., 2021. “Monte Carlo Tree Search: A Review of Recent Modifications and Applications,” arXiv preprint arXiv:2103.04931.
- [San15] Santambrogio, F., 2015. Optimal Transport for Applied Mathematicians, Springer Intern. Publ.
- [Sch16] Schmitzer, B., 2016. “A Sparse Multiscale Algorithm for Dense Optimal Transport,” J. of Mathematical Imaging and Vision, Vol. 56, pp. 238-259.
- [Sch19] Schmitzer, B., 2019. “Stabilized Sparse Scaling Algorithms for Entropy Regularized Transport Problems,” SIAM Journal on Scientific Computing, Vol. 41, pp. A1443-A1481.
- [SuB18] Sutton, R., and Barto, A. G., 2018. Reinforcement Learning, 2nd Ed., MIT Press, Cambridge, MA.
- [TsB00] Tseng, P., and Bertsekas, D. P., 2000. “An ϵ -Relaxation Method for

- Separable Convex Cost Generalized Network Flow Problems," Mathematical Programming, Vol. 88, pp. 85-104.
- [Vil09] Villani, C., 2009. Optimal Transport: Old and New, Springer, Berlin.
- [Vil21] Villani, C., 2021. Topics in Optimal Transportation, American Mathematical Soc.
- [WaD17] Walsh III, J. D., and Dieci, L., 2017. "General Auction Method for Real-Valued Optimal Transport," arXiv preprint arXiv:1705.06379.
- [WaD19] Walsh III, J. D., and Dieci, L., 2019. "A Real-Valued Auction Algorithm for Optimal Transport," Statistical Analysis and Data Mining: The ASA Data Science Journal, 12(6), pp. 514-533.
- [WaX12] Wang, J., and Xia, Y., 2012. "Fast Graph Construction Using Auction Algorithm," arXiv preprint arXiv:1210.4917.
- [ZSP08] Zavlanos, M. M., Spesivtsev, L., and Pappas, G. J., 2008. "A Distributed Auction Algorithm for the Assignment Problem," Proc. 47th IEEE Conference on Decision and Control, pp. 1212-1217.