المراجع
References

المراجع العربية

١) عبدالرحمن أبوعمة ومحمد العش، البرمجة الخطية، جامعة الملك سعود ١٩٩٠م.

٢) زيد البلخي ، مقدمة في بحوث العمليات، جامعة الملك سعود ١٩٩٨م.

٣) سليمان الحميدان، عمر حامد وحسن حميدة، الأسس الرياضية للبرمجة الخطية، جامعة الملك سعود ٢٠٠٢م.

٤) أحمد رضوان وعبدالرحمن أبوعمة، تقنيات الأمثلية في البرمجة الخطية، جامعة الملك سعود ٢٠٠١م.

٥) محمد الصفدي، البرمجة الخطية وبحوث العمليات، وكالة المطبوعات ١٩٨٠م.

المراجع الأجنبية

[AW] S. Al-Homidan and H. Wolkowicz, Approximate and Exact Completion Problems for Euclidean Distance Matrices using Semidefinite Programming, *Linear Algebra and its Applications*, Vol.406 (2005) pp. 109-141.

[AF] S. Al-Homidan and R. Fletcher, Rationalizing Foot and Ankle Measurements to Conform to a Rigid Body Model, *Computer Methods in Biomechanics and Biomedical*, Vol. 9, No. 2, 2006. pp. 103-111.

[Alh] S. Al-Homidan, Approximate Toeplitz problem using semidefinite programming, *Journal of Optimization Theory and Ap*plications, Vol. 135, pp. 583-598, 2007.

[Ali1] F. Alizadeh. *Combinatorial optimization with interior point methods and semidefinite matrices.* PhD thesis, University of Minnesota, Minneapolis, USA, 1991.

[Ali2] F. Alizadeh. Interior point methods in semidefinite programming with applications to combinatorial optimization. *SIAM Journal on Optimization*, 5:13-51, 1995.

[AHO] F. Alizadeh, J.-P.A. Haeberley, and M.L. Overton. Primal-dual methods for semidefinite programming: convergence rates, stability and numerical results. *SIAM Journal on Optimization*, 8(3):746-768, 1998.

[AA] E.D. Andersen and K.D. Andersen. The MOSEK interior point optimzer for linear programming: an implementation of the homogeneous algorithm. In H. Frenk, K. Roos, T. Terlaky, and S. Zhang, editors, *High performance optimization*, pages 197-232. Kluwer Academic Publishers, 2000.

[AF] K.M. Anstreicher and M. Fampa. A long-step path following algorithm for semidefinite programming problems. In P.M. Pardalos and H. Wolkowicz, editors, *Topics in Semidefinite and Interior-Point Methods*, volume 18 of *Fields Institute Communications Series*, pages 181-196. American Mathematical Society, 1998.

[BW] V. Balakrishnan and F. Wang. Sdp in systems and control theory. In H. Woklowicz, R. Saigal, and L. Vandenberghe, editors, *Handbook of semidefinite programming*, pages 421-442. Kluwer Academic Publishers, Norwell, MA, 2000.

[BGN] A. Ben-Tal, L. El Ghaoui, and A.S. Nemirovski. Robustness. In H. Wolkowicz, R. Saigal, and L. Vandenberghe, editors, *Handbook of semidefinite programming*, pages 139-162. Kluwer Academic Publishers, Norwell, MA 2000.

[BN] A. Ben-Tal and A.S. Nemirovski. Stuctural design. In H. Wolkowicz, R. Saigal, and L. Vandenberghe, editors, *Handbook of semidefinite programming*, pages 443-467. Kluwer Academic Publishers, Norwell, MA 2000.

[BGFB] S.E. Boyd, L. El Ghaoui, E. Feron, and V. Balakrishnan. *Linear matrix inequalities in system and control theory*. SIAM Studies in Applied Mathematics, Vol. 15, SIAM,Philadelphia, USA, 1994.

[DK] E. de Klerk. Aspects of semidefinite programming, Kluwer Academic Publishers, 2002.

[DPRT] E. de Klerk, J. Peng, C. Roos, and T. Terlaky. A scaled Gauss-Newton primal-dual search direction for semidefinite optimization. *SIAM Journal on Optimization*, 11:870-888, 2001.

[DRT] E. de Klerk, C. Roos, and T. Terlaky. Initialization in semidefinite programming via a self-dual, skew-symmetric embedding. *OR Letters*, 20:213-221, 1997.

[Di] J. Dieudonne′. *Foundations of Modern Analysis.* Academic Press, New York, 1960.

[Fa] L. Faybusovich. Semi-definite programming: a path-following algorithm for a linear-quadratic functional. *SIAM Journal on Optimization*, 6(4):1007-1024, 1996.

[Go] M.X. Goemans. Semidefinite programming in combinatorial optimization. *Math Programming*, 79(1-3, Ser. B):143-161, 1997. Lectures on mathematical programming (ismp97).

[GW] M.X. Goemans and D.P. Williamson. Improved approximation algorithms for maximum cut and satisfiability problems using semidefinite programming. *Journal of the ACM*, 42(6):1115-1145, 1995.

[GT] A. Goldman and A.W. Tucker. Theory of linear programming. In H.W. Kuhn and A.W. Tucker, editors, *Linear inequalities and related systems, Annals of Mathematical Studies*, No. 38, pages 53-97. Princeton University Press, Princeton, New Jersey, 1956.

[Go] C.C. Gonzaga. Path following methods for linear programming. *SIAM Review*, 34:167-227, 1992.

[HDRT] B. He, E. der Klerk, C. Roos, and T. Terlaky. Method of approximate centers for semi-definite programming. *Optimization Methods and Software*, 7:291-309, 1997.

[HRVW] C. Helmberg, F. Rendl, R.J. Vanderbei, and H. Wolkowicz. An interior-point method for semidefinite programming. *SIAM Journal on Optimization*, 6:342-361, 1996.

[HJ] R.A. Horn and C.R. Johnson. *Matrix Analysis*. Cambridge University Press, 1985.

[JRT] B. Jansen, C. Roos, and T. Terlaky. Interior point method: a decade after Karmarkar. A survey, with application to the smallest eigenvalue problem. *Statistica Neerlandica*, 50, 1995.

[Ji] J. Jiang. A long step primal-dual path following method for semidefinite programming. *OR Letters*, 23(1,2):53-62, 1998.

[Ka] N.K. Karmarkar. A new polynomial-time algorithm for linear programming. *Combinatorica*, 4:373-395, 1984.

[Kh] L. Khachiyan. A polynomial-time algorithm for linear programming. *Soviet Mathematics Doklady*, 20:191-194, 1979.

[KSS] M. Kojima, M. Shida, and S. Shindoh. Local Convergence of Predictor-Corrector Infeasible-Interior-Point Algorithms for SDP's and SDLCP's. *Mathematical Programming*, 80:129-160, 1998.

[KSH] M. Kojima, S. Shindoh, and S. Hara. Interior point methods for the monotone semidefinite linear complementarity problem in symmetric matrices. *SIAM Journal on Optimization*, 7(1):88-125, 1997.

[KMRVW] S. Kruk, M. Muramatsu, F. Rendl, R.J. Vanderbei, and H. Wolkowicz. The Gauss-Newton direction in linear semidefinite programming. *Optimization Methods and Software*, 15(1):1-27, 2001.

[LO] A.S. Lewis, and M.L. Overton. Eigenvalue optimization. *Acta Numerica*, 5:149-190, 1996.

[LSZ] Z.-Q. Luo, J.F. Sturm, and S. Zhang. Conic convex programming and self-dual embedding. *Optimization Methods and Software*, 14(3):196-218, 2000.

[LMS] I.J. Lustig, R.E. Marsten, and D.F. Shanno. Interior point methods: Computational state of the art. *ORSA Journal on Computing*, 6:1-15, 1994.

[MTY] S. Mizuno, M.J. Todd, and Y. Ye. On adaptive step primal-dual interior-point algorithms for linear programming. *Mathematics of Operations Research*, 18:964-981, 1993.

[Mo] R.D.C. Monteiro. Primal-dual path-following algorithms for semidefinite programming. *SIAM Journal on Optimization*, 7(3):663-678, 1997.

[NN] Yu. Nesterov and A.S. Nemirovski. *Interior point polynomial algorithms in convex programming*. SIAM Studies in Applied Mathematics, Vol. 13, SIAM, Philadelphia, USA, 1994.

[NT] Yu. Nesterov and M.J. Todd. Self-scaled barriers and interior-point methods for convex programming. *Mathematics of Operations Research*, 22(1):1-42, 1997.

[Ol] J.A. Olkin. Using semi-definite programming for controller design in active noise control. *SIAG/OPT Views and News*, 8:1-5, Fall 1996.

[Pa] P.A. Parillo. *Structured Semidefinite Programs and Semi-algebraic Geometry Methods in Robustness and Optimization*. PhD thesis, California Institute of Technology, Pasadena, California, USA, 2000. Available at http://www.cds.caltech.edu/ ∼ pablo/.

[Po] G. Po'lya. Über positive Darstelung von Polynomen. *Vierteljschr. Naturforsch. Ges.* Zürich, 73:141-145, 1928. (also Collected Papers, Vol. 2, 309-313, MIT Press, Cambridge, Mass., London 1974).

[PS] F.A. Potra and R. Sheng. A superlinearly convergent primal-dual infeasible-interior-point algorithm or semidefinite programming, *SIAM Journal on Optimization*, 8(4):1007-1028, 1998.

[RP] M.V. Ramana and P.M. Pardalos. Semidefinite programming. In T. Terlaky, editor, *Interior point methods of mathematical programming*, pages 369-398. Kluwer, Dordrecht, The Netherlands, 1996.

[RTV] C. Roos, T. Terlaky, and J.-Ph. Vial. *Theory and Algorithms for Linear Optimization: An interior point approach.* John Wiley & Sons, New York, 1997.

[SSK] M. Shida, S. Shindoh, and M. Kojima. Existence of search directions in interior-point algorithms for the SDP and the monotone SDLCP. *SIAM Journal on Optimization*, 8(2):387-396, 1998.

[St] J.F. Sturm. Using seDuMi 1.02, a MATLAB toolbox for optimization over symmetric cones. *Optimization Methods and Software*, 11-12:625-653, 1999.

[TTT] K.C. Toh, M.J. Todd, and R.H. Tütüncü. SDPT3 -- a Matlab software package for semidefinite programming. *Optimization Methods and Software*, 11:545-581, 1999.

[Va] R.J. Vanderbei. Linear Programming, Kluwer's International Series, 2001.

[VB] L. Vandenberghe and S. Boyd. Semidefinite programming. *SIAM Review*, 38:49-95, 1996.

[WSV] H. Wolkowicz, R. Saigal, and L. Vandenberghe, editors, *Handbook of semidefinite programming*, Kluwer Academic Publishers, Norwell, MA, 2000.

[Wr] S. Wright. Primal-Dual Interior Point Methods, SIAM, Philadelphia, USA, 1996.

[XHY] X. Xu, P.-F. Hung, and Y. Ye. A simplified homogeneous and self-dual linear programming algorithm and its implementation. *Annals of OR*, 62:151-171, 1996.

[Ye] Y. Ye. *Interior point algorithm*. Discrete Mathematics and Optimization. Wiley-Interscience, New York, 1997.

[YTM] Y. Ye, M.J. Toddl and S. Mizuno. An $O(\sqrt{nL})$-iteration homogeneous and self-dual linear programming algorithm. *Mathematics of Operations Research*, 19:53-67, 1994.

[Zh] Y. Zhang. On extending some primal-dual interior point algorithms from linear programming to semidefinite programming. *SIAM Journal on Optimization*, 8(2):365-386, 1998.