References in Semi-infinite Optimization (collected by)

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Books and Proceedings on Semi-infinite Programming:

References

[1] Anderson, E.J. and Philpott, A.B., (Eds.), Infinite Programming, Springer-Verlag, Berlin, (1985).

[2] Brosowski B., Parametric semi-infinite optimization, Verlag Peter Lang, Frankfurt (1982).

[3] A.V. Fiacco and K.O. Kortanek (Eds.), Semi-Infinite Programming and Applications, Lecture Notes in Economics and Mathematical Systems, 215, (1983).

[4] Goberna M.A., Lôpez M.A., Linear Semi-Infinite Optimization, John Wiley & Sons, Chichester, (1998).

[5] Goberna, M.A. and López, M.A. (Eds.), Semi-Infinite Programming. Recent Advances, Kluwer Verlag, (2001).

[6] Glashoff K., Gustafson S.-A., Linear Optimization and Approximation, Springer Verlag, Berlin, (1983).

[7] Hettich R., (Ed.), Semi-infinite programming, Lecture Notes in Control and Inf. Sciences, Proc. Workshop Bad Honnef 1978, Lect. Notes Control Inf. Sci. 15, Springer, Berlin (1979).

[8] Hettich R. and Zencke P., Numerische Methoden der Approximation und der semi-infiniten Optimierung, Teubner, Stuttgart (1982).

[9] Reemtsen Rembert, Rückmann Jan (eds.), Semi-infinite programming Workshop, Cottbus, Germany, September 1996. Boston: Kluwer Academic Publishers. Nonconvex Optim. Appl. 25, (1998).

[10] Stein O., Bilevel strategies in Semi-infinite Programming, Kluwer, Boston (2003).

[11] Weber, G.-W., Generalized Semi-Infinite Optimization and Related Topics, Heldermann Verlag, Lemgo, Germany, 2003.

Publikations in Semi-infinite Programming:

References

[1] Abbe, L., *Two logarithmic barrier methods for convex semi-infinite problems*, in [223], 169-195, (2001).

[2] Achziger W., *Optimization with variable sets of constraints and an application in truss design*, Comput. Optimiz. and Applic., 15, 69-96, (2000).

[3] Altinel, I.K., *The Design of Optimum Component Test Plans in the Demonstration of a Series System Reliability*, European Journal of Operations Research, 78, 97-115, (1994).

[4] Altinel, I.K. and Oezekici, S., *A dynamic model for component testing*, Naval Research Logistics 44, 187-197, (1997).

[5] Altinel, I.Kuban and Oezekici, Sueleyman, *Reliability testing and semi-infinite linear programming.*, in Reemtsen, Rembert (ed.) et al., Semi-infinite programming. Workshop, Cottbus, Germany, September 1996. Boston: Kluwer Academic Publishers. Nonconvex Optim. Appl. 25, 297-322, (1998).

[6] Anai, Hirokazu, *On solving semidefinite programming by quantifier elimination.*, RIMS Kokyuroku 1038, 154-162, (1998).

[7] Anderson, E.J., *A New Primal Algorithm for Semi-Infinite Linear Programming*, in Infinite Programming,

[8] Anderson, E.J., Lewis A.S., *An extension of the simplex algorithm for semi-infinite linear programming*, Math. Programming, 44, 247-269, (1989).

Eds. Anderson, E.J. and Philpott, A.B., 108-122, Springer-Verlag, Berlin, (1985).

[9] Anderson, E.J. and Goberna, M.A. and López, M.A., *Locally polyhedral linear semi-infinite systems*, Linear Algebra and its Applications 270, 231-253, (1998),

[10] Anderson, E.J., M.A. Goberna and M.A. López, *Simplex-like trajectories on quasi-polyhedral convex sets*, Mathematics of Operations Research 26, 147-162, (2001).

[11] Anderson, E.J. and Nash, P., Linear Programming in Infinite Dimensional Spaces, Wiley, New York, (1987).

[12] Anderson, E.J. and Lewis, A.S., *An Extension of the Simplex Algorithm for Semi-Infinite Linear Programming*, Mathematical Programming, 44, 247-269, (1989).

[13] Anderson, E.J. and Lewis, A.S. and Wu, S.Y, *The capacity problem.*, Optimization 20, no. 6, 725-742, (1989).

[14] Anderson, E.J. and Philpott, A.B., (Eds.), Infinite Programming, Springer-Verlag, Berlin, (1985).

[15] Anderson, E.J. and Wu, Soon Yi, *The continuous complementarity problem.*, Optimization 22, 3, 419-426, (1991).

[16] Amaya J., Gómez J.A., *Strong duality for inexact linear programming problems.* Optimization 49, no. 3, 243-269, (2001).

[17] Amaya, J. and M.A. Goberna, *Stability of the feasible set of linear systems with an exact constraints set*, Tech. Report, Centro de Modelamiento Matemático, Universidad de Chile, 2003.

[18] Amaya, J. and J.A. Gómez, *Strong duality for inexact linear programming problems*, *Optimization* 49, 243-369, (2001).

[19] Asic, M.D. and Kovacevic-Vujcic, V.V., *A semi-infinite programming method and its application to boundary value problems.*, Z. Angew. Math. Mech. 66, No.5, T403-T404, (1986)

[20] Asic, M.D. and Kovacevic-Vujcic, V.V., *Computational complexity of some semiinfinite programming methods.*, System modelling and optimization, Proc. 12th IFIP Conf., Budapest/Hung. 1985, Lect. Notes Control Inf. Sci. 84, 33-42, (1986).

[21] Asic, M.D. and Kovacevic-Vujcic, V.V., *Linear semiinfinite programming problem: A discretization method with linearly growing number of points.*, Seminarber., Humboldt-Univ. Berlin, Sekt. Math. 85, 1-10, (1986).

[22] Asic, M.D. and Kovacevic-Vujcic, V.V., *An implementation of a semi-infinite programming method to Chebyshev approximation problems.*, Numerical methods and approximation theory III, 3rd Conf., Nis/Yugosl. 1987(1988), 111-119, (1988).

[23] Asic, M.D. and Kovacevic-Vujcic, V.V., *An interior semi-infinite programming method.*, J. Optimization Theory Appl., 59, 3, 353-368, (1988).

[24] Asic, Miroslav D. and Kovacevic-Vujcic, Vera V., *A new semi-infinite programming method for nonlinear approximation.*, Fischer, Herbert (ed.) et al., Applied mathematics and parallel computing. Festschrift for Klaus Ritter. Heidelberg: Physica. 11-22, (1996).

[25] Astav'ev, N.N., *Infinite-dimensional linear programming problems with a duality gap.*, (English. Russian original) Sov. Math., Dokl., 29, 325-328, (1984).

[26] Astaf'ev, N.N., *On the regularization of a problem of semi-infinite linear programming.*, Mathematische Optimierung - Theorie und Anwendungen, 30. int. wiss. Kolloq., Ilmenau 1985, Heft 4, 3-6, (1985).

[27] Astaf'ev, N.N., *Regularization of a dual problem of convex programming in the class of infinite linear programs.*, Seminarber., Humboldt-Univ. Berlin, Sekt. Math. 90, 1-4, (1987).

[28] Astaf'ev, N.N., *Infinite linear inequality systems in mathematical programming. (Beskonechnye sistemy linejnykh neravenstv v matematicheskom programmirovanii).*, (Russian. English summary) Moskva: Nauka. 136 p. (1990).

[29] Astaf'ev, N.N., *A connection between quasi-finitariness and regularity in problems of semi-infinite linear programming.*, (English. Russian original) Ukr. Math. J. 44, 6, 653-656, (1992).

[30] Astaf'ev, N.N., *Connection of properties of quasifiniteness and regularity in semiinfinite linear programming problems.*, (Russian) Ukr. Mat. Zh. 44, 6, 725-729, (1992).

[31] Astaf'ev, N.N., *Regularization of a semi-infinite linear programming problem*, (Russian) Siberian conference on applied and industrial mathematics dedicated to the memory of L.V. Kantorovich. Vol. 1. Novosibirsk (Russia), July 25-29, 1994. Novosibirsk: Izdatel'stvo Instituta Matematiki SO RAN, (eds.) Bokut', L.A. et al.", 14-17, (1997).

[32] J-P. Aubin and H. Frankowska, Set-Valued Analysis, Birkhuser Verlag, Boston-Basel-Berlin, (1990).

[33] Auslender, A. and Cominetti, R. and Crouzeix, J.-P., *Convex functions with unbounded level sets and applications to duality theory.*, SIAM J. Optim. 3, 4, 669-687, (1993).

[34] Auslender, A. and Coutat, P., *On closed convex sets without boundary rays and asymptotes*, Set-Valued Analysis, 2, 19-33 , (1994).

[35] Bakan, G.M. and Kussul', N.N., *Fuzzy ellipsoidal sets in nonstatic estimation problems.*, Sov. J. Autom. Inf. Sci., 22, 5, 8-14, (1989).

[36] Bakan, G.M. and Nizhnichenko, E.A., *A finite-convergent algorithm for the solution of a countable system of inequalities.*", (Russian) Kibern. Vychisl. Tekh., 53, 78-83, (1981).

[37] Baker, T.E. and Polak, E., *On the optimal control of systems described by evolution equations.*, SIAM J. Control Optimization, 32, 1, 224-260, (1994).

[38] Balinski, M.L., *On recent developments in integer programming.*, *Proc. Princeton Sympos. math. Programming, Princeton 1967, 267-302, (1970).*

[39] B. Bank and J. Guddat and D. Klatte and B. Kummer and K. Tammer, Non-Linear Parametric Optimization, Birkhuser Verlag, Basel-Boston-Stuttgart, (1983).

[40] Bard, J.F., *Practical bilevel optimization. Algorithms and applications.*, Nonconvex Optimization and its Applications, 30. Kluwer Academic Publishers, Dordrecht, (1998).

[41] G. Beer, Topologies on Closed and Closed Convex Sets, Kluwer, (1993).

[42] Bell, Bradley M., *Global convergence of a semi-infinite optimization method.*, Appl. Math. Optimization, 21, 1, 69-88, (1990).

[43] Ben Israel, A. and Charnes, A. and Kortanek, K.O., *Asymptotic duality in semi-infinite programming and the convex core topology.*, Rend. Mat., VI. Ser. 4 (1971), 751-767, (1972).

[44] Benson, P. and Smith, R.L. and Schochetman, I.E. and Bean, J.C., *Optimal solution characterization for infinite positive semi-definite programming.*, Appl. Math. Lett., 7, 4, 65-67, (1994).

[45] Ben-Tal, Aharon, *Second order theory of extremum problems.*, in Extremal methods and systems analysis, int. Symp., Austin/Texas 1977, Lect. Notes Econ. Math. Syst. 174, 336-356, (1980).

[46] Ben-Tal, Aharon and Eiger, Gideon and Gershovitz, Vladimir, *Global minimization by reducing the duality gap.*, Math. Program. 63A, No.2, 193-212, (1994).

[47] Ben-Tal A., Nemirovski A., *Robust solutions of uncertain linear programs*, Operations Research Letters 25, 1-13, (1999).

[48] , Ben-Tal, A. and Nemirovski, A., *Robust convex optimization*, Mathematics of Operations Research, 23, 769-805, (1998).

[49] Ben-Tal, A. and Kerzner, L. and Zlobec, S., *Optimality conditions for convex semi-infinite programming problems.*, Nav. Res. Logist. Q., 27, 413-435, (1980).

[50] Ben-Tal, A. and Rosinger, E.E. and Ben-Israel, A., *A Helly-type theorem and semiinfinite programming.*, in Constructive approaches to mathematical models, Proc. Conf. in Honor of R. J. Duffin, Pittsburgh/Pa. 1978, 127-135, (1979).

[51] Ben-Tal, Aharon and Teboulle, Marc and Zowe, Jochen, *Second order necessary optimality conditions for semi-infinite programming problems.* in Semi-infinite programming, Proc. Workshop Bad Honnef 1978, Lect. Notes Control Inf. Sci. 15, 17-30, (1979).

[52] B. Betró, *An Accelerated Central Cutting Plane Algorithm for Linear Semi-infinite Programming*, Math. Programming, 101, 3, Ser.A, 479-495, (2004).

[53] Betró, B. and Guglielmi, A., *Methods for Global Prior Robustness under Generalized Moment Conditions*, in Robust Bayesian Analysis, Eds. Ríos Insua, D. and Ruggeri, F., 273-293, Springer-Verlag, Berlin, (2000).

[54] Bezdek, K., *On the illumination of smooth convex bodies*, Archiv der Mathematik, 58, 611-614, (1992).

[55] Bhattacharjee, Binita; Green, William H., Jr.; Barton, Paul I. *Interval methods for semi-infinite programs*, Comput. Optim. Appl., 30, 1, 63–93, (2005).

[56] Birbil S.I., Bouza G., Frenk H., Still G., *Equilibrium constrained optimization problems*, European Journal of Operational Research, to appear.

bibitembl74 Blair, Charles E., *A note on infinite systems of linear inequalities in* $\mathbb{R}^n$, J. Math. Anal. 48, 150-154, (1974).

[57] Blair, Charles E., *Ascent ray theorems and some applications.*, in Semi-infinite programming and applications, int. Symp. Austin/Tex. 1981, Lect. Notes Econ. Math. Syst. 215, 1-9, (1983).

[58] Blatt, Hans-Peter, *Characterization of strong unicity in semi-infinite optimization by chain of references.*, in Parametric optimization and approximation, Proc. Oberwolfach 1983, ISNM 72, 36-46, (1985).

[59] Bonnans, J.Frederic and Cominetti, Roberto, *Perturbed optimization in Banach spaces. III: Semi-infinite optimization.*, SIAM J. Control Optimization, 34, 5, 1555-1567, (1996).

[60] Bonnans, J.Frederic and Cominetti, Roberto and Shapiro, Alexander, *Second order optimality conditions based on parabolic second order tangent sets.*, SIAM J. Optim., 9, 2, 466-492, (1999).

[61] Bonnans, J.Frederic and Shapiro, Alexander, *Optimization problems with perturbations: A guided tour.*, SIAM Rev., 40, 2, 228-264, (1998).

[62] J.F. Bonnans and A. Shapiro, Perturbation Analysis of Optimization Problems, Springer-Verlag, New York-Berlin-Heidelberg, (2000).

[63] Borwein, J.M., *The limiting Lagrangian as a consequence of Helly's theorem.*, J. Optimization Theory Appl., 33, 497-513, (1981).

[64] J. M. Borwein, *Direct theorems in semi-infinite convex programming*, Mathematical Programming 21, 301-318, (1981).

[65] Borwein, J.M., *Adjoint process duality.*, Math. Oper. Res., 8, 403-434, (1983).

[66] J.M. Borwein, *Semi-Infinite Programming Duality: How Special Is It?*, in Semi-Infinite Programming and Applications, Eds. A.V. Fiacco and K.O. Kortanek, Lecture Notes in Economics and Mathematical Systems, 215, 10-36, (1983).

[67] Borwein, J.M. and Huang, W.Z., *A fast heuristic method for polynomial moment problems with Boltzmann- Shannon entropy*, SIAM J. Optim., 5, 1, 68-99, (1995).

[68] Borwein, J.M. and Kortanek, K.O., *Fenchel-duality and separably-infinite programs.*, Math. Operationsforsch. Stat., Ser. Optimization , 14, 37-48, (1983).

[69] Borwein, J.M. and Lewis, A.S., *On the convergence of moment problems.*, Trans. Am. Math. Soc., 325, 1, 249-271, (1991).

[70] Borwein, J.M. and Lewis, A.S., *Partially finite convex programming. I: Quasi relative interiors and duality theory.*, Math. Program. 57B, No.1, 15-48, (1992).

[71] Borwein, J.M. and Lewis, A.S., *Partially finite convex programming. II: Explicit lattice models.*, Math. Program. 57B, No.1, 49-83 (1992).

[72] Borwein, J.M. and Lewis, A.S. and Noll, D., *Maximum entropy reconstruction using derivative information. I: Fisher information and convex duality.*, Math. Oper. Res., 21, 2, 442-468, (1996).

[73] Borwein, J.M. and Wolkowicz, H., *Characterizations of optimality without constraint qualification for the abstract convex program.*, Math. Program. Study, 18, 77-100, (1982).

[74] Borwein, J.M. and Wolkowicz, H., *A simple constraint qualification in infinite dimensional programming.*, Math. Program., 35, 83-96, (1986).

[75] N.D. Botkin, *Randomized algorithms for the separation of point sets and for solving quadratic programs*, Applied Mathematics and Optimization, 32, 195-210, (1095).

[76] Brannigan, M., *Constrained approximation techniques for solving integral equations.*, in Constructive methods for the practical treatment of integral equations, Proc. Conf., Oberwolfach 1984, ISNM 73, 68-73, (1985).

[77] Brannigan, M. and Gustafson, S.-A., *H-sets, convex programming and constrained approximation.*, TRITA-NA, R. Inst. Technol., Stockh. 8308, 21 p. (1983).

[78] Braess D., Nonlinear Approximation theory, Springer-Verlag, Berlin (1986).

[79] Brosowski B., *Nicht-lineare Tschebyscheff-Approximation*, Bibliogr. Institut Mannheim, (1968).

[80] Brosowski, B., *On parametric linear optimization. III: A necessary condition for lower semicontinuity.*, Methods Oper. Res., 36, 21-30, (1980).

[81] Brosowski, Bruno, *An optimality condition and its application to parametric semi-infinite optimization.*, Operations research in progress, Theory Decis. Libr. 32, 3-16, (1982).

[82] Brosowski, Bruno, *On the continuity of the optimum set in parametric semiinfinite programming.*, in Mathematical programming with data perturbations II, 2nd Symp., George Washington Univ. 1980, Lect. Notes Pure Appl. Math. 85, 23-48, (1983).

[83] Brosowski B., Parametric semi-infinite optimization, Verlag Peter Lang, Frankfurt (1982).

[84] Brosowski, B., *A refinement of an optimality criterion and its application to parametric programming.*, J. Optimization Theory Appl., 42, 367-382, (1984).

[85] Brosowski, Bruno, *Characterization of minimal points and parametric semi-infinite optimization.*, in Mathematical programming, Proc. int. Congr., Rio de Janeiro 1981, 25-41, (1984).

[86] Brosowski, Bruno, *Parametric semi-infinite linear programming. I: Continuity of the feasible set and of the optimal value.*, Math. Program. Study, 21, 18-42, (1984).

[87] Brosowski, Bruno, On the lower semicontinuity of best rational Chebyshev approximation., Ann. Numer. Math., 4, 1-4, 79-94, (1997).

[88] Brosowski, B. and da Silva, A.R., Nonlinear semi-infinite vector optimization., Wiss. Z. Tech. Hochsch. Ilmenau, 37, 3, 7-21, (1991).

[89] Brosowski, Bruno and Guerreiro, Claudia, *On the characterization of a set of optimal points and some applications.*, in Approximation and optimization in mathematical physics, Meth. Verf. Math. Phys. 27, 141-174, (1983).

[90] Burke, James V. and Tseng, Paul, *A unified analysis of Hoffman's bound via Fenchel duality.*, SIAM J. Optim., 6, 2, 265-282, (1996).

[91] M.J. Cánovas and M.A. López and J. Parra and M.I. Todorov, *Stability and Well-Posedness in Linear Semi-Infinite Programming*, SIAM Journal on Optimization, 10, 82-98, (1999).

[92] Cánovas, M.J., *Estabilidad de sistemas de desigualdades lineales en un contexto paramétrico*, Miguel Hernndez University, thesis, (2000).

[93] Cánovas, M.J. and López, M.A. and Parra, J., *Stability of the feasible set for linear inequality systems: A carrier index set approach*, Elche University (CIO Working Paper I-2001-03), (2001).

[94] Cánovas, M.J. and López, M.A. and Parra, J., *Stability of linear inequality systems in a parametric setting*, Elche University (CIO Working Paper I-2001-11), (2001).

[95] Cánovas, M.J. and López, M.A. and Parra, J., *Upper semicontinuity of the feasible set mapping for linear inequality systems*, Elche University (CIO Working Paper I-2001-08), (2001).

[96] Cánovas, M.J. and López, M.A. and Parra, J. and Todorov, M.I., *Stability and well-posedness in linear semi-infinite programming*, SIAM Journal on Optimization, 10, 82-98, (1999).

[97] Cánovas, M. J., López, M. A., Ortega, E.-M. and Parra, J., *Upper semicontinuity of closed-convex-valued multifunctions*, Math. Meth. Oper. Res. 57, 409-425, (2003).

[98] Cánovas, M. J., López, M. A. and Parra, J., *Upper semicontinuity of the feasible set mapping for linear inequality systems*, Set-Valued Analysis 10, 361-378, (2002).

[99] Cánovas, M. J., López, M. A. and Parra, J., *Stability in the discretization of a parametric semi-infinite convex inequality system*, Mathematics of Oper. Res. 27, 755-774, (2002).

[100] Cánovas, M. J., López, M. A. and Parra, J., *Stability of linear inequality systems in a parametric setting*, J. Optim. Theory Appl., to appear.

[101] Cánovas, M. J., López, M. A., Parra, J. and Todorov, M. I., *Solving strategies and well-posedness in linear semi-infinite programming*, Annals of Oper. Res. 101, 171-190, (2001).

[102] Cánovas, M. J., López, M. A., Parra, J. and F.J. Toledo, *Distance to ill-posedness and consistency value of linear semi-infinite inequality systems*, Tech. Report, Dep. Estadística e Investigación Operativa, Universidad de Alicante, 2003.

[103] Charnes, A. and Cooper, W.W. and Kortanek, K.O., *Duality, Haar programs and finite sequence spaces*, in Proceedings of the National Academy of Science, 48, 783-786, (1962).

[104] Charnes, A. and Cooper, W.W. and Kortanek, K.O., *Duality in semi-infinite programs and some works of Haar and Carathéodory*, Man. Sci., 9, 209-228, (1963).

[105] Charnes, A. and Cooper, W.W. and Kortanek, K., *On representations of semi-infinite programs which have no duality gaps*, Management Science, 12, 113-121, (1965).

[106] A. Charnes and W.W. Cooper and K.O. Kortanek, *On the Theory of Semi-Infinite Programming and a Generalization of the Kuhn-Tucker Saddle Point Theorem for Arbitrary Convex Functions*, Naval Research Logistics Quarterly, 16, 41-51, (1969).

[107] Charnes, A. and Cooper, W.W. and Kortanek, K.O., Semi-infinite programming, differentiability and geometric programming. II, Appl. Math., 14, 15-22, (1969).

[108] Charnes, A. and Cooper, W.W. and Kortanek, K., *Semi-infinite programming, differentiability and geometric programming. I: With examples and applications in economics and management science.*, J. Math. Sci. 6(1971), 19-40, R.S. Varma mem. Vol. I, 19-40 (1974).

[109] Charnes, A. and Gribik, P.R. and Kortanek, K.O., *Separably-infinite programming*, Z. Oper. Res. 24, 33-45, (1980).

[110] Charnes, A. and Gribik, P.R. and Kortanek, K.O., *Polyextremal principles and separably-infinite programs.*, Z. Oper. Res., Ser. A, 24, 211-234, (1980).

[111] Charnes, A. and Kortanek, K.O. and Lovegren, V., *A saddle value characterization of Fan's equilibrium points.*, in Semi-infinite programming and applications, int. Symp., Austin/Tex. 1981, Lect. Notes Econ. Math. Syst. 215, 37-49, (1983).

[112] Charnes, A. and Song, T., *The extreme point characterization of semi-infinite dual non-Archimedean balls.*, Z. Oper. Res., Ser. A, 28, 101-115, (1984).

[113] Chao, Kun-Mao and Hardison, Ross C. and Miller, Webb, *Constrained sequence alignment.*, Bull. Math. Biol., 55, 3, 503-524, (1993).

[114] Chen, Guangya, *Vector variational inequality and its application to multiobjective optimization.*, Chin. Sci. Bull., 34, 12, 969-972, (1989).

[115] Chen, Xioushu and Luo, Guoguang, *Higher order optimality necessary conditions for extremum problems in topological vector spaces.*, (Chinese. English summary) Acta Math. Appl. Sin., 13, 2, 156-167, (1990).

[116] Ciurana, J.T.Pastor, *Algebraic characterization of infinite edges in the dual feasible set in a linear semi-infinite program.*, (Spanish. English summary) Trab. Invest. Oper., 2, 1, 69-80, (1987).

[117] Colgen, R., *Necessary conditions for upper semicontinuity in parametric semi-infinite programming.*, J. Optimization Theory Appl., 48, 65-79, (1986).

[118] Colgen, R., *Necessary conditions for upper semicontinuity in parametric semi-infinite programming.*, J. Optimization Theory Appl. (to appear)

[119] Colgen, R. and Schnatz, K., *Continuity properties in semi-infinite parametric linear optimization*, Numer. Anal. Optim. 3, 451-460, (1981).

[120] Colgen, R. and Schnatz, K., *Stetigkeit bei parametrischer semi-infiniter Optimierung.*, Z. Angew. Math. Mech. 62, T365 - T367, (1982).

[121] Collatz, L., *Applications of nonlinear optimization to sciences.*, in Mathematical programming, Proc. int. Congr., Rio de Janeiro 1981, 79-88, (1984).

[122] Colton, David and Reemtsen, Rembert, *The numerical solution of the inverse Stefan problem in two space variables.*, SIAM J. Appl. Math., 44, 996-1013, (1984).

[123] Conn, Andrew R., *Nonlinear programming, exact penalty functions and projection techniques for non-smooth functions.*, in Numerical optimization, Proc. SIAM Conf., Boulder/Colo. 1984, 3-25, (1985).

[124] Conn, Andrew R. and Gould, Nicholas I.M., *An exact penalty function for semi-infinite programming.*, Math. Program., 37, 19-40, (1987).

[125] Coope, Ian D. and Price, Christopher J., *Exact penalty function methods for nonlinear semi-infinite programming.*, in Reemtsen, Rembert (ed.) et al., Semi-infinite programming. Workshop, Cottbus, Germany, September 1996. Boston: Kluwer Academic Publishers. Nonconvex Optim. Appl. 25, 137-157, (1998).

[126] Coope, I.D. and Watson, G.A., *A projected Lagrangian algorithm for semi-infinite programming.*, Math. Program., 32, 337-356, (1985).

[127] Craven, B.D., *Perturbed minimization, with constraints adjoined or deleted.*, Math. Operationsforsch. Stat., Ser. Optimization ", 14, 23-36, (1983).

[128] Craven, B.D., *Nondifferentiable optimization by smooth approximations.*, Optimization, 17, 3-17, (1986).

[129] Craven, B.D., *An algorithm for minimax.*, Z. Oper. Res., 35, 5, 425-434, (1991).

[130] Craven, B.D. and Glover, B.M., *An approach to vector subdifferentials.*, Optimization, 38, 3, 237-251, (1996).

[131] Craven, B.D. and Glover, B.M. and Zlobec, S., *On minimization subject to cone constraints.*, Numer. Funct. Anal. Optimization, 6, 363-378, (1983).

[132] Dahl, M., I. Claesson, S. Nordebo y S. Nordholm, Chebyshev optimization of circular arrays, in X. Yang et al. (eds.), *Optimization Methods and Applications*, Kluwer, Dordrecht, 2001, 309-319, (2001).

[133] Dall'Aglio, M., *On Some Applications of LSIP to Probability and Statistics*, in Semi-Infinite Programming. Recent Advances, Eds. Goberna, M.A. and López, M.A., Kluwer, 237-254, (2001).

[134] da Silva, A.R., *On parametric infinite optimization.*, in Parametric optimization and approximation, Conf. Oberwolfach 1983, ISNM 72, 83-95, (1985).

[135] Dahleh, Munther A. and Pearson, J.Boyd jun., *Optimal rejection of persistent disturbances, robust stability, and mixed sensitivity minimization.*, IEEE Trans. Autom. Control AC-33, No.8, 722-731, (1988).

[136] Darkhovskij, B.S. and Levitin, E.S., *Quadratic optimality conditions for problems of semi-infinite mathematical programming.*, Trans. Mosc. Math. Soc. , 175-225, (1986).

[137] den Hertog, D. and Kaliski, J. and Roos, C. and Terlaky, T., *A logarithmic barrier cutting plane method for convex programming.*, Ann. Oper. Res. , 58, 69-98, (1995).

[138] Dentcheva, Darinka; Ruszczyński, Andrzej, *Semi-infinite probabilistic optimization: first-order stochastic dominance constraints*, Optimization, 53, 5-6, 583–601, (2004).

[139] Dibowski, A., *Zur Implementierung eines Loesunsverfahrens fuer lineare Steuerprobleme in stetiger Zeit. (On the implementation of a solution method for linear continuous-time control problems.).*, Wiss. Z., Tech. Hochsch. Leipz., 13, 3, 155-160, (1989).

[140] Dontchev, A.L. and Zolezzi, T., Well-posed Optimization Problems, Springer Verlag, (1993).

[141] Dotto, Oclide Jose, *An extension of a Meyer's theorem.*, Port. Math. 42, 137-150, (1983/84).

[142] Dourdoumas, N. and Schlacher, K., *Ein Theorem zur Festlegung der Uebertragungsmatrix eines Systems bei verallgemeinerten L_2- Beschraenkungen der Eingangssignale.*, Automatisierungstechnik, 36, 8, 311-312, (1988).

[143] Duca, Eugenia, *Applications of a pseudo-geometric inequality in geometric programming.*, Prepr., "Babes-Bolyai" Univ., Fac. Math. Phys., Res. Semin. 1987, No.6, 149-159, (1987).

[144] Duffin R.J., *Infinite programs*, in Linear Inequalities and related Systems, Kuhn, Tucker (eds.) Princeton University Press, 157-170, (1956).

[145] Duffin R.J., *Convex analysis treated by linear programming*, Math. programming, 4, 125-143, (1973).

[146] Duffin R.J., Karlovitz L.A., *An infinite linear program with a duality gap*, Management Sc. 12, 122=134, (1965).

[147] Duffin, R.J. and Jeroslow, R.G. and Karlovitz, L.A., *Duality in semi-infinite linear programming.*, in Semi-infinite programming and applications, int. Symp., Austin/Tex. 1981, Lect. Notes Econ. Math. Syst. 215, 48-62, (1983).

[148] Dugosija, D., *On stability in quasiconvex semi-infinite optimization*, Yugoslav Journal of Operations Research, 1, 135-140, (1991).

[149] Dula, Jose H., *An upper bound on the expectation of simplical functions of multivariate random variables.*, Math. Program. 55A, No.1, 69-80, (1992).

[150] Dula, Jose H. and Murthy, Rajluxmi V., *A Tchebysheff-type bound on the expectation of sublinear polyhedral functions.*, Oper. Res. , 40, 5, 914-922, (1992).

[151] Elia, N. and Dahleh, M.A., *l1-minimization with magnitude constraints in the frequency domain*, Journal of Optimization Theory and Applications, 93, 27-51, (1997).

[152] Eremin, I.I., *Duality and approximation for improper problems of mathematical programming.*, Sov. J. Comput. Syst. Sci., 25, 5, 28-39, (1987).

[153] Fahlander K. *Computer programs for semi-infinite optimization*, TRITA-AN-7312, Dep. Numer. Anal. Royal Institute of Techn. S-10044 Stockholm, 70, (1973).

[154] Faigle U., Kern W., Still G., Algorithmic Principles of Mathematical Programming, Kluwer, Dordrecht, (2002).

[155] Fajardo, M.D. and López, M.A., *Locally Farkas-Minkowski systems in convex semi-infinite programming*, Journal of Optimization Theory and Applications, 103, 313-335, (1999).

[156] Fang, S.-C. and Hu, C.-F. and Wang, H.-F. and Wu, S.-Y., *Linear programming with fuzzy coefficients in constraints*, Computers and Mathematics with Applications, 37, 63-76, (1999).

[157] Fang, S.-C. and Lin, C.-J. and Wu, S.-Y., *On solving convex quadratic semi-infinite programming problems.*, Optimization, 31, 2, 107-125, (1994).

[158] Fang, S.-Ch., Ch.-J. Lin, and S.Y. Wu, *Solving quadratic semi-infinite programming problems by using relaxed cutting-plane scheme*, J. Comput. Appl. Math. 129, 89-104, (2001).

[159] Fang, Shu-Cherng and Rajasekera, J.R. and Tsao, H.-S.J., *Entropy optimization and mathematical programming.*, International Series in Operations Research & Management Science. 8. Dordrecht: Kluwer Academic Publishers. x, 343 p., (1997).

[160] Fang, Shu-Cherng and Tsao, H.-S.Jacob, *An efficient computational procedure for solving entropy optimization problems with infinitely many linear constraints.*, J. Comput. Appl. Math., 72, 1, 127-139, (1996).

[161] Fang, Shu-Cherng and Wu, Soon-Yi, *An inexact approach to solving linear semi-infinite programming problems.*, Optimization, 28, 3-4, 291-299, (1994).

[162] Fang, S.-C. and Wu, Soon-Yi, *Solving min-max problems and linear semi-infinite programs.*, Comput. Math. Appl., 32, 6, 87-93, (1996).

[163] Fang, Shu-Cherng; Wu, Soon-Yi; Sun, Jie, *An analytic center cutting plane method for solving semi-infinite variational inequality problems*, J. Global Optim., 28, 2, 141–152, (2004).

[164] Faybusovich, L., *On Nesterov's approach to semi-infinite programming*, Acta Appl. Math. 74, 195-215, (2002.

[165] Felcyn, P., *Limimal number of a convex body with a smooth boundary*, Demonstratio Mathematica, 21, 393-398, (1988).

[166] Ferrer, A., *Applicability of deterministic global optimization to the short-term hydrotermal coordination problem*, Technological University of Catalonia, thesis, (2004).

[167] Ferris, M.C. and Philpott, A.B., *An interior point algorithm for semi-infinite linear programming.*, Math. Program., Ser. A, 43, 3, 257-276, (1989).

[168] Ferris, Michael C. and Philpott, Andrew B., *On affine scaling and semi-infinite programming.*, Math. Program. 56A, No.3, 361-364 (1992).

[169] Fiacco, Anthony V. and Ishizuka, Yo, *Suggested research topics in sensitivity and stability analysis for semi- infinite programming problems.*, Ann. Oper. Res., 27, 65-76, (1990).

[170] Fiacco, A.V.(ed.) and Kortanek, K.O.(ed.), Semi-infinite programming and applications. An International Symposium, Austin, Texas, September 8-10, 1981., in Lecture Notes in Economics and Mathematical Systems, 215. Berlin, Springer-Verlag. XI, 322 p., (1983).

[171] Figueroa, Jose L. and Romagnoli, Jose A., *An algorithm for robust pole assignment via polynomial approach.*, IEEE Trans. Autom. Control , 39, 4, 831-835, (1994).

[172] Fischer, Bernd and Modersitzki, Jan, *An algorithm for complex linear approximation based on semi-infinite programming.*, Numer. Algorithms , 5, 1-4, 287-297, (1993).

[173] Fischer, Thomas, *Continuous selections for semi-infinite optimization.*, Parametric optimization and related topics, Int. Conf., Plaue/GDR 1985, Math. Res. 35, 95-112, (1987).

[174] Fischer, Thomas, *Contributions to semi-infinite linear optimization.*, *Approximation and optimization in mathematical physics, Meth. Verf. Math. Phys. 27, 175-199, (1983).*

[175] Fischer, Thomas, *Stetige Selektionen bei semi-infiniter Optimierung. (Continuous selections in semi-infinite optimization).*, Frankfurt/Main: R. G. Fischer Verlag. V, 77 S. (1986).

[176] Fischer, T., *Strong unicity and alternation for linear optimization.*, J. Optimization Theory Appl., 69, 2, 251-267, (1991).

[177] Fischer, T. and Todorov, M., *The almost Chebyshev property in linear semi-infinite programming.*, Optimization , 25, 2-3, 161-178, (1992).

[178] Flachs, Jacob, *Sensitivity analysis in generalized rational approximation with restricted denominator.*, in Parametric optimization and approximation, Conf. Oberwolfach 1983, ISNM 72, 126-147, (1985).

[179] Flammang, V., *Two new points in the spectrum of the absolute Mahler measure of totally positive algebraic integers.*, Math. Comput., 65, 213, 307-311, (1996).

[180] Fryer, M.J. and Greenman, J.V., *Optimisation theory. Applications in OR and economics.*, London: Edward Arnold. VII, 293 p. (1987).

[181] Fueloep, J., *A semi-infinite programming method for approximating load duration curves by polynomials.*, Computing, 49, 3, 201-212, (1992).

[182] Gabasov, R. and Kirillova, F.M., *A new view on control, observability and identification problems.*, (Russian. English summary) Dokl. Akad. Nauk BSSR, 34, 9, 777-780, (1990).

[183] Gabasov, R. and Kirillova, F.M. and Kostyukova, O.I., *An algorithm for solving a linear extremal problem with a continuum of constraints.*, (Russian) Vestn. Beloruss. Gos. Univ. Im. V. I. Lenina, Ser. I, 2, 44-47, (1985").

[184] Gale, D. and Klee, V.L., *Convex functions on convex polytopes*, Mathematica Scandinavica, 7, 379-391, (1959).

[185] Gauvin, J., Formulae for the sensitivity analysis of linear programming problems, in M. Lassonde (ed.), *Approximation, Optimization and Mathematical Economics*, Physica-Verlag, Berlin, 117-120, (2001).

[186] Gayá, V.E., López, M. A. and Vera de Serio, V.: Stability in convex semi-infinite programming and rates of convergence of optimal solutions of discretized finite subproblems, *Optimization* 52, 693-713, (2003).

[187] Geiger, C., *Ueber notwendige Bedingungen bei semi-infiniten Optimierungsaufgaben.*, Operations Research Verfahren XXV, Symp. Heidelberg 1976, Teil 1, 355-366, (1977).

[188] Geletu, Abebe; Hoffmann, Armin, *A conceptual method for solving generalized semi-infinite programming problems via global optimization by exact discontinuous penalization*, European J. Oper. Res., 157, 1, 3–15, (2004).

[189] Glashoff, Klaus, *Duality theory of semi-infinite programming.*, in Semi-infinite programming, Proc. Workshop Bad Honnef 1978, Lect. Notes Control Inf. Sci. 15, 1-16, (1979).

[190] Glashoff K., Gustafson S.-A., *Numerical treatment of parabolic boundary control problems*, J. Optim. Theory Appl., 19, 645-663, (1976).

[191] Glashoff K., Gustafson S.-A., Linear Optimization and Approximation, Springer Verlag, Berlin, (1983).

[192] Gochet W. Smeers Y., Kortanek K.O., *Using semi-infinite programming in geometric programming*, E. Shlifer (ed.), jerusalem Acad. Press and North Holland, Amsterdam, 430-438, (1973).

[193] Goberna, M.A., *Haar duality and moment problems.*, (Spanish. English summary) Trab. Invest. Oper. 1. No.1, 105-114, (1986).

[194] Goberna, M.A., *Boundedness relations in linear semi-infinite programming.*, Adv. Appl. Math., 8, 53-68, (1987).

[195] Goberna, M.A., *Some properties of systems with closed characteristic cone.*, (Spanish. English summary) Rev. R. Acad. Cienc. Exactas Fis. Nat. Madr., 81, 183-196, (1987)

[196] Goberna, M.A., *Linear semi-infinite optimization: recent advances*, Department of Statistics and Operations Research, Alicante University, technical report, (2004).

[197] Goberna, M.A. and Jornet, V., *A note about linear inequality systems and duality.*, Z. Oper. Res., Ser. A, 31, 71-78, (1987).

[198] Goberna, M.A. and Jornet, V., *Geometric fundamentals of the simplex method in semi-infinite programming*, Operations Research Spektrum, 10, 145-152, (1988).

[199] Goberna, M.A. and Jornet, V., *On Haar's dual problem.*, OR Spektrum, 18, 4, 209-217, (1996).

[200] Goberna, M.A. and Jornet, V. and Puente, R. and Todorov, M.I., *Analytical linear inequality systems and optimization*, Journal of Optimization Theory and Applications, 103, 95-119, (1999).

[201] M.A. Goberna and V. Jornet and M. Rodríguez, *On the characterization of some families of closed convex sets*, Contributions to Algebra and Geometry, (2001), to appear.

[202] Goberna, M. A., V. Jeyakumar and N. Dinh, *Dual characterizations of set containments with strict inequalities*, Tech. Report, Dep. of Applied mathematics, University of New South Wales, Sydney, (2003).

[203] Goberna, M. A., V. Jornet and M.D. Molina, *Saturation in linear optimization*, J. Optimization Theory Appl. 117, 327-348, (2003).

[204] Goberna, M. A., V. Jornet and M.D. Molina, *Uniform saturation*, Tech. Report, Dep. Estadística e Investigación Operativa, Universidad de Alicante, 2003.

[205] Goberna, M. A., V. Jornet and M. Rodríguez, *Directional end of a convex set: Theory and applications*, Journal of Optimization Theory and Applications 110, 389-411, (2001).

[206] Goberna, M. A., V. Jornet and M. Rodríguez, *On the characterization of some families of closed convex sets*, Contributions to Algebra and Geometry 43, 153-169, (2002).

[207] Goberna, M. A., V. Jornet and M. Rodríguez, *On linear systems containing strict inequalities*, Linear Algebra and its Applications 360, 151-171, (2003).

[208] Goberna, M. A., M. Larriqueta and V. Vera de Serio, *On the stability of the boundary of the feasible set in linear optimization.* Set-Valued Analysis 11, 203-223, (2003).

[209] Goberna, M. A., M. Larriqueta and V. Vera de Serio, *On the stability of the extreme point set in linear optimization*, Tech. Report, Dep. Estadística e Investigación Operativa, Universidad de Alicante, (2004).

[210] M.A. Goberna and M. Larriqueta and V. Vera de Serio, *On the stability of the boundary of the feasible set in linear optimization*, Alicante University, 2002, submitted to Set Valued Analysis.

[211] Goberna, M.A. and Lopez, M.A., *Conditions for the closedness of the characteristic cone associated with an infinite linear system.*, in Infinite programming, Proc. Int. Symp., Cambridge/U.K. 1984, Lect. Notes Econ. Math. Syst. 259, 16-28, (1985).

[212] Goberna, M.A. and Lopez, M.A., *Reduction and discrete approximation in linear semi-infinite programming.*, Optimization, 18, 643-658, (1987).

[213] Goberna, M.A. and Lopez, M.A., *Discrete approximation in linear semi-infinite programming.*, in Operations research, Proc. 1st Int. Semin., Zarautz/Spain 1986, 3-20 (1987).

[214] M.A. Goberna and M.A. López, *Optimal value function in semi-infinite programming.*, J. Optim. Theory Appl., 59, 2, 261-280, (1988).

[215] Goberna, M.A. and Lopez, M.A., *Conditions for the uniqueness of the optimal solution in linear semi- infinite programming.*, J. Optimization Theory Appl., 72, 2, 225-246, (1992).

[216] Goberna, M.A. and Lopez, M.A., *Dimension and finite reduction in linear semi-infinite programming.*, Optimization, 25, 2-3, 143-160, (1992).

[217] Goberna, M.A. and Lopez, M.A., *Optimality theory for semi-infinite linear programming.*, Numer. Funct. Anal. Optimization, 16, 5-6, 669-700, (1995).

[218] Goberna, M.A. and López, M.A., *A comprehensive survey of linear semi-infinite optimization*, in Semi-Infinite Programming, Reemtsen, R. and Rckmann, J.-J. (eds.), Kluwer, Nonconvex Optim. Appl. 25, 3-27, (1998).

[219] Goberna, M.A. and Lopez, M.A., *A review of semi-infinite linear inequality systems.*, in Sofonea, M. (ed.) et al., Proceedings of the 2nd Catalan days on Applied mathematics. Font-Romeu, Odeillo, France, November 29 - December 1, 1995. Perpignan: Presses universitaires. 127-137, (1995).

[220] Goberna, M.A. and Lopez, M.A., *On duality in semi-infinite programming and existence theorems for linear inequalities.*, J. Math. Anal. Appl., 230, 1, 173-192, (1999).

[221] M.A. Goberna and M.A. López, *Topological Stability of Linear Semi-Infinite Inequality Systems*, Journal of Optimization Theory and its Applications, 89, 227-236, (1996).

[222] Goberna M.A., Lôpez M.A., Linear Semi-Infinite Optimization, John Wiley & Sons, Chichester, (1998).

[223] Goberna, M. A., and M. A. López (eds.), *Semi-Infinite Programming: Recent Advances*, Kluwer, Dordrecht, 2001.

[224] M.A. Goberna and M.A. López and J.A. Mira and J. Valls, *On the existence of solutions for linear inequality systems*, Journal of Mathematical Analysis and Applications, 192, 133-150, (1995).

[225] Goberna, M.A. and Lopez, M.A. and Pastor, J., *Farkas-Minkowski systems in semi-infinite programming.*, Appl. Math. Optimization, 7, 295-308, (1981).

[226] Goberna, M.A. and Lopez, M.A. and Pastor, J., *Finite representation of infinite systems of inequalities.*, (Spanish) Trab. Estad. Invest. Oper., 33, 1, 3-26, (1982).

[227] Goberna, M.A. and Lopez, M.A. and Pastor, J., *A note about the consistency of an infinite linear inequality system.*, Rev. Union Mat. Argent., 31, 197-201, (1984).

[228] Goberna, M.A. and Lopez, M.A. and Pastor, J. and Vercher, E. *An overview of semi-infinite programming theory and related topics through a generalization of the alternative theorems.*, Trab. Estad. Invest. Oper., 35, 1, 32-47, (1984).

[229] Goberna, M.A. and Lopez, M.A. and Pastor, J. and Vercher, E., *Alternative theorems for infinite systems with applications to semi- infinite games.*, Nieuw Arch. Wiskd., IV. Ser., 2, 218-234, (1984).

[230] Goberna, M.A. and Lopez, M.A. and Todorov, M., *Unicity in linear optimization.*, J. Optimization Theory Appl., 86, 1, 37-56, (1995).

[231] M.A. Goberna and M.A. López and M.I. Todorov, *Stability Theory for Linear Inequality Systems*, SIAM Journal on Matrix Analysis and Applications, 17, 730-743, (1996).

[232] M.A. Goberna and M.A. López and M.I. Todorov, *Stability Theory for Linear Inequality Systems II: Upper Semicontinuity of the Solution Set Mapping*, SIAM Journal on Optimization, 7, 1138-1151, (1997).

[233] Goberna, M.A., M.A. López, and M.I. Todorov, *A generic result in linear semi-infinite optimization*, Applied Mathematics and Optimization 48, 181-193, (2003).

[234] Goberna, M.A. and López, M.A. and Todorov, M., *Extended active constraints in linear optimization with applications*, Technical Report, Alicante University", (2001).

[235] Goberna, M.A., M.A. López, and M.I. Todorov, *A sup-function approach to linear semi-infinite optimization*, Journal of Mathematical Sciences 116, 3359-3368, (2003).

[236] Goberna, M.A., M.A. López, and M.I. Todorov, *Extended active constraints in linear optimization with applications*, SIAM J. Optimization 14, 608-619, (2003).

[237] Goberna, M.A. and López, M.A. and Wu, S.Y., *Separation by Hyperplanes: a Linear Semi-infinite Programming Approach*, in Semi-Infinite Programming. Recent Advances, Eds. Goberna, M.A. and López, M.A., Kluwer Verlag, (2001).

[238] M.A. Goberna and J.A. Mira and G. Torregrosa, *Redundancy in linear semi-infinite systems*, Report, Alicante University, (1998).

[239] Goberna, M.A. and Pastor, J., *A generalization of Farkas' lemma with application to convex analysis and programming.*, (Spanish) Rev. R. Acad. Cienc. Exactas Fis. Nat. Madr., 75, 1199-1208, (1981).

[240] Goberna, M.A. and Pastor, J., *Sufficient conditions for the existence of an optimal solution in a semi- infinite program.*, (Spanish. English summary) Trab. Estad. Invest. Oper., 34, 1, 3-20, (1983).

[241] Gómez, J.A., P.J. Bosch, and J. Amaya, *Duality for inexact semi-infinite linear programming*, Optimization, 54, 1, 1-25, (2005).

[242] Gómez, S., A. Lancho, and M.I. *Todorov, Some Stability in convex semi-infinite optimization*, in Parametric optimization and related topics. VII, Aportaciones Mat. Investig., 18, Soc. Mat. Mexicana, Mxico, 113–120, (2004).

[243] Gorbunov, V.K, *Ueber die Reduktion von Problemen der optimalen Regelung auf endlichdimensionale.*, (Russian) Zh. Vychisl. Mat. Mat. Fiz., 18, 1083-1095, (1978).

[244] Gorbunov, V.K., *Reduction of optimal control problems to finite-dimensional problems.*, U.S.S.R. Comput. Math. Math. Phys., 18, 5, 8-21, (1979).

[245] Görner S., Reemtsen R., *Numerical methods for semi-infinite programming: A survey*, in 'Semi-infinite Programming', Reemtsen/Rückmann (eds.), Kluwer, Boston (1998).

[246] Gramlich, Guenther, *SQP-Methoden fuer semiinfinite Optimierungsprobleme. (SQP-methods for semiinfinite optimization problems).*, PhD-thesis, Trier: Univ. Trier, FB IV, 101 S. (1990).

[247] Gramlich, G. and Hettich, R., *A software package for semi-infinite optimization.*, in Numerical methods of nonlinear programming and their implementations, Proc. Int. Conf., Opti-Soft, Quedlinburg/Ger. 1989, Math. Res. 60, 29-39, (1991).

[248] Gramlich, G. and Hettich, R. and Sachs, E.W., *Local convergence of SQP methods in semi-infinite programming.*, SIAM J. Optim., 5, 3, 641-658, (1995).

[249] H.J. Greenberg and W.P. Pierskalla, *Stability Theory for Infinitely Constrained Mathematical Programming*, Journal of Optimization Theory and its Applications, 16, 409-428, (1975).

[250] Gribik, P.R., *Selected applications of semi-infinite programming.*, in Constructive approaches to mathematical models, Proc. Conf. in Honor of R. J. Duffin, Pittsburgh/Pa. 1978, 171-187, (1979).

[251] Gribik, P.R. *A central-cutting-plane algorithm for semi-infinite programming problems.*, in Semi-infinite programming, Proc. Workshop Bad Honnef 1978, Lect. Notes Control Inf. Sci. 15, 66-82, (1979).

[252] Grotzinger, Stephen J., *Supports and convex envelopes.*, Math. Program., 31, 339-347, (1985).

[253] Guarino Lo Bianco, Corrado; Piazzi, Aurelio, *Using semi-infinite optimization for the steering of car-like vehicles*, Parametric optimization and related topics. VII, Aportaciones Mat. Investig., 18, Soc. Mat. Mexicana, Mxico, 121–132, (2004).

[254] Guerra, F. and Jiménez, M.A., *A semi-infinite programming approach to a mixed approximation problem.*, in Guddat, Juergen (ed.) et al., Parametric optimization and related topics IV. Proceedings of the 4th international conference, Enschede (NL), June 6–9, 1995. Bern: Peter Lang. Approximation Optimization. 9, 135-143, (1997).

[255] Guerra, F. and Jiménez, M.A., *On feasible sets defined through Chebyshev approximation*, Mathematical Methods of Operations Research, 47, 255-264, (1998).

[256] Guerra, F. and Orozco J., *On constraint qualificatios in semi-infinite optimisation*, Proceedings PARAOPT VII (Puebla 2002), Aportationes Matematicas 18. 133-141, (2004).

[257] Gugat, M., *One-sided derivatives for the value function in convex parametric programming.*, Optimization, 28, 3-4, 301-314, (1994).

[258] Gugat, Martin, *Computation of lower bounds for spectra via fractional semi-infinite programming.*, in Florenzano, Monique (ed.) et al., Approximation and optimization in the Caribbean II. Proceedings, Frankfurt a. M.: Peter Lang. Approximation Optimization. 8, 379-391, (1995).

[259] Gugat, M., *An algorithm for Chebyshev approximation by rationals with constrained denominators.*, Constructive Approximation, 12, 2, 197-221, (1996).

[260] Gugat, Martin, *Semi-infinite terminal problems: A Newton type method.*, Optimization, 44, 1, 25-48, (1998).

[261] Gugat, M., *Convex semi-infinite parametric programming: uniform convergence of the optimal value functions of discretized problems*, Journal of Optimization Theory and Applications, 101, 191-201, (1999).

[262] Gugat, M., *Error bounds for infinite systems of convex inequalities without Slater's condition*, Math. Programming (Ser. B) 88, 255-275, (2000).

[263] Gustafson, Sven-Ake, *On the computational solution of a class of general moment problems*, SIAM J. Numer. Anal., 7, 343-357, (1970).

[264] Gustafson, Sven-Ake, *On computational applications of the theory of the moment problem*, Rochy Mauntain J. Math., 4, 227-240, (1974).

[265] Gustafson, Sven-Ake, *Nonlinear systems in semi-infinite programming.*, in Numer. Solution Syst. nonlin. algebr. Equations, NSF-CBMS Regional Conf., Pittsburgh 1972, 63-99, (1973).

[266] Gustafson, Sven-Ake, *On semi-infinite programming in numerical analysis.*, in Semi-infinite programming, Proc. Workshop Bad Honnef 1978, Lect. Notes Control Inf. Sci. 15, 137-153, (1979).

[267] Gustafson, Sven-Ake, Lectures on semi-infinite programming., Vorlesungsr. SFB 72, Approximation Optimierung, Univ. Bonn 1, 54 p. (1979).

[268] Gustafson, Sven-Ake *On numerical analysis in semi-infinite programming.*, R. Inst. Technol., Stockh. TRITA-NA-7907, 15 p. (1979).

[269] Gustafson, Sven-Ake, *On numerical analysis in semi-infinite programming.*, in Semi-infinite programming, Proc. Workshop Bad Honnef 1978, Lect. Notes Control Inf. Sci. 15, 51-65, (1979).

[270] Gustafson, Sven-Ake, *A three-phase algorithm for semi-infinite programs.*, in Semi-infinite programming and applications, int. Symp., Austin/Tex. 1981, Lect. Notes Econ. Math. Syst. 215, 136-157 (1983).

[271] Gustafson, Sven-Ake, *Investigating semi-infinite programs using penalty functions and Lagrangian methods.*, J. Aust. Math. Soc., Ser. B, 28, 158-169, (1986).

[272] Gustafson, Sven-Ake, *Complementarity and weak duality in semi-infinite programming.*, TRITA-NA, R. Inst. Technol., Stockh. 8217, 12 p. (1982).

[273] Gustafson, S.-A., *Calculating bounds for a class of Laplace integrals*, in Parametric optimization and related topics IV, Guddat, J. et al. (eds.), Peter Lang, Bern, Approximation and Optimization, 9" 145-159, (1997).

[274] Gustafson, S.-A. and da Silva, A.R., *On accurate computation of a class of linear functionals*, Journal of Mathematical Systems, Estimation and Control, 8, 213-216, (1998).

[275] Gustafson, S.A. and Kortanek, K.O., *Numerical treatment of a class of semi-infinite programming problems.*, Naval Res. Logist. Quart., 20, 477-504, (1973).

[276] Gustafson, S.-A. and Kortanek, K.O., *Semi-infinite programming and applications.*, in Mathematical programming, 11th int. Symp., Bonn 1982, 132-157, (1983).

[277] A. Haar, *Über lineare Ungleichungen*, Acta Math. Szeged, 2, 1-14, (1924).

[278] Haaren-Retagne E.,*A semi-infinite programming algorithm for robot trajectory planning*, Dissertation, University Trier (1992).

[279] Henrion R., Klatte D., *Metric regularity of the feasible set mapping in semi-infinite optimization*, Appl. Math. Optim. 30, 103-109, (1994).

[280] Haaren-Retagne E., Hettich R., Still G., *A numerical comparison of two approaches to compute membrane eigenvalues by defectminimization*, in Numerical Treatment of Eigenvalue Problems, Albrecht et al. (eds.), 5, Internat. Ser. Numer. Math. 96, Birkhäuser, Basel, 209-224, (1991).

[281] Han, Tianxiong, *A supporting cutting plane algorithm for solving linear semi-infinite programming problems.*, (Chinese. Englishh) J. East China Norm. Univ., Nat. Sci. Ed., 326, 1, 11-16, (1986).

[282] Hanson, M.A., *Continuous-time programming.*, in Continuous-time, fractional and multiobjective programming, Proc. Conf., Canton/NY (USA) 1986, 129-140, (1989).

[283] Haurie, A. and Savard, G. and White, D.J., *A note on: An efficient point algorithm for a linear two-stage optimization problem.*, Oper. Res., 38, 3, 553-555, (1990).

[284] Helbig, Siegfried, *Optimization problems on extremal algebras: Necessary and sufficient conditions for optimal points.*, in Parametric optimization and approximation, Conf. Oberwolfach 1983, ISNM 72, 166-1984, (1985).

[285] Helbig, Siegfried, *Relationships between vector optimization and parametric semi-infinite optimization in certain ordered groups.*" in Optimization in mathematical physics, Pap. 11th Conf. Methods Techniques Math. Phys., Oberwolfach/Ger. 1985, Methoden Verfahren Math. Phys. 34, 61-75, (1987).

[286] Helbig, Siegfried, Parametrische semi-infinite Optimierung in total-geordneten Gruppen. (Parametric semi-infinite optimization in totally ordered groups)., Frankfurt (FRG): R. G. Fischer Verlag. 162 S. (1987).

[287] Helbig, Siegfried, *Optimality criteria in disjunctive optimization and some applications.*, in Operations research, Proc. 14th Symp., Ulm/FRG 1989, Methods Oper. Res. 62, 67-78, (1990).

[288] S. Helbig, *Stability in disjunctive linear optimization I*: Continuity of the feasible set, Optimization, 21, 855-869, (1990).

[289] Helbig, S., *Stability in disjunctive optimization. II: Continuity of the feasible and optimal set.*, Optimization, 31, 1, 63-93, (1994).

[290] Helbig, S. and Todorov, M.I., *Unicity results for general linear semi-infinite optimization problems using a new concept of active constraints.*, Applied Mathematics and Optimization, 38, 21-43, (1998).

[291] Helton, J.William and Merino, Orlando and Walker, Trent E., H^∞ *optimization with plant uncertainty and semidefinite programming.*, Int. J. Robust Nonlinear Control, 8, 9, 763-802, (1998).

[292] Henrion, R., *On constraint qualifications.*, J. Optimization Theory Appl. , 72, 1, 187-197, (1992).

[293] Henrion, R. and Klatte, D., *Metric regularity of the feasible set mapping in semi-infinite optimization.*, Appl. Math. Optimization, 30, 1, 103-109, (1994).

[294] Henrion, R. and Klatte, D., *Regularity and stability in nonlinear semi-infinite optimization*, in Reemtsen, Rembert (ed.) et al., Semi-infinite programming. Workshop, Cottbus, Germany, September 1996. Boston: Kluwer Academic Publishers. Nonconvex Optim. Appl. 25, 69-102, (1998).

[295] Hettich R., (Ed.), Semi-infinite programming, Lecture Notes in Control and Inf. Sciences, Springer, Berlin (1979).

[296] Hettich R. *Extremalkriterien für Optimierungs- und Approximations-aufagaben*, Thesis, University of Twente, (1977).

[297] Hettich, R., *A comparison of some numerical methods for semi-infinite programming.*, in Semi-infinite programming, Proc. Workshop Bad Honnef 1978, Lect. Notes Control Inf. Sci. 15, 112-125, (1979).

[298] Hettich, R., *Numerical methods for nonlinear Chebyshev approximation.*, in Approximation in Theorie und Praxis, Symp. Siegen 1979, 139-156, (1979).

[299] Hettich, Rainer, *A review of numerical methods for semi-infinite optimization.*, in Semi-infinite programming and applications, int. Symp., Austin/Tex. 1981, Lect. Notes Econ. Math. Syst. 215, 156-178, (1983).

[300] Hettich, R., *On the computation of membrane-eigenvalues by semi-infinite programming methods.*, in Infinite programming, Proc. Int. Symp., Cambridge/U.K. 1984, Lect. Notes Econ. Math. Syst. 259, 79-89, (1985).

[301] Hettich R., *An implementation of a discretization method for semi-infinite programming*, Math. Programming, 34, 354-361, (1986).

[302] R. Hettich, *Some recent results in parametric semi-infinite programming*, Optimization Vol. 32, pp. 359-372, (1995).

[303] Hettich R., Gramlich G.,*A note on the implementation of a method for quadratic semi-infinite programming*, Math. Programming 46, 249-254, (1990).

[304] Hettich, Rainer and Gugat, Martin, *Optimization under functional constraints (semi-infinite programming) and applications.*, in Modern methods of optimization, Proc. Summer Sch., Bayreuth/Ger. 1990, Lect. Notes Econ. Math. Syst. 378, 90-126, (1992).

[305] Hettich R., Haaren E., Ries M., Still G., *Accurate numerical approximations of eigenfrequencies of elliptic membranes*, Z. Angew. Math. Mech. 67, 589-597, (1989).

[306] Hettich, R. and van Honstede, W., *On quadratically convergent methods for semi-infinite programming.*, in Semi-infinite programming, Proc. Workshop Bad Honnef 1978, Lect. Notes Control Inf. Sci. 15, 97-111, (1979).

[307] Hettich R., Jongen H.Th., *Semi-infinite programming: Conditions of optimality and applications* in: J. Stoer (ed.), Optimization Techniques, Part 2, Lecture Notes in Control and Information Sciences 7, Springer Verlag, 1-11, (1978)

[308] Hettich R., Kortanek K., Semi-infinite programming: Theory, methods and applications, SIAM Review, vol 35, N0.3, 380-429, (1993).

[309] R. Hettich, G. Still, *Semi-infinite programming models in Robotics*, in 'Parametric Optimization and Related Topics II', Guddat et al. (eds.), Academie Verlag, Berlin, 112-118, (1991).

[310] Hettich, Rainer and Still, Georg, *Local aspects of a method for solving membrane-eigenvalue problems by parametric semi-infinite programming.*, in Parametric optimization and related topics, Int. Conf., Plaue/GDR 1985, Math. Res. 35, 183-195 (1987).

[311] R. Hettich, G. Still, *Second order optimality conditions for generalized semi-infinite programming problems*, Optimization Vol. 34, pp. 195-211, (1995).

[312] Hettich R.,Still G., *Semi-infinite programming: Second order optimality conditions*, in C.A. Floudas and P.M. Pardalos (eds.):Encyclopedia of Optimization, Kluwer Academic Publishers, volume 5, 117-121, (2001).

[313] Hettich R. and Zencke P., Numerische Methoden der Approximation und der semi-infiniten Optimierung, Teubner, Stuttgart (1982).

[314] Hettich, R. and Zencke, P., *Superlinear konvergente Verfahren fuer semi-infinite Optimierungsprobleme im stark eindeutigen Fall.*, in Konstruktive Methoden der finiten nichtlinearen Optimierung, Tag., Oberwolfach 1980, ISNM 55, 103-119, (1980).

[315] Hettich, R. and Zencke, P., *Two case-studies in parametric semi-infinite programming.*, in Systems and optimization, Proc. Twente Workshop, Enschede/Neth. 1984, Lect. Notes Control Inf. Sci. 66, 132-155, (1985).

[316] Hettich, R. and Zencke, P., *An algorithm for general restricted rational Chebyshev approximation.*, SIAM J. Numer. Anal., 27, 4, 1024-1033, (1990).

[317] Higgins, J.E. and Polak, E., *An ϵ-active barrier-function method for solving minimax problems.*, Appl. Math. Optimization, 23, 3, 275-297, (1991).

[318] J.-B. Hiriart-Urruty and C. Lemaréchal, Convex Analysis and Minimization Algorithms I, Springer-Verlag, Berlin, (1993).

[319] Hoffman, A.J., *On approximate solutions of systems of linear inequalities*, Journal of Research of the National Bureau of Standards, 49, 263-265, (1952).

[320] Hoffmann K.H., Klostermaier A., *A semi-infinite linear programming procedure and applications in approximation problems in optimal control*, in Approximation Theory II, Lorentz etal. (eds.), Academic Press, new York, 379-389, (1976).

[321] Hoffmann A. and Reinhardt R., *On reverse Chebyshev approximation problems*, Technical University of Illmenau, Preprint No. M08/94, (1994).

[322] R.B. Holmes, Geometric Functional Analysis and its Applications, Springer-Verlag, New York-Heidelberg-Berlin, (1975).

[323] Holtgrewe, D. and Dourdoumas, N., *Ein Verfahren zum Entwurf energie-optimaler Mehrgroessensysteme. (A method for the design of energy-optimal multivariable systems).*, Automatisierungstechnik, 37, 11, 430-435, (1989).

[324] Hu, C.F. and Fang, S.C., *A relaxed cutting plane algorithm for solving fuzzy inequality systems*, Optimization, 45, 89-106, (1999).

[325] Hu, Hui, *A one-phase algorithm for semi-infinite linear programming.*, Math. Program., Ser. A, 46, 1, 85-103, (1990).

[326] Hu, H., *A projection method for solving infinite systems of linear inequalities.*, in Du, Ding-Zhu (ed.) et al., Advances in optimization and approximation. Dordrecht: Kluwer Academic Publishers. Nonconvex Optim. Appl. 1, 186-194, (1994).

[327] Hu, H., *A globally convergent method for semi-infinite linear programming.*, J. Glob. Optim., 8, 2, 189-199, (1996).

[328] Hu, H., *Perturbation analysis of global error bounds for systems of linear inequalities*, Math. Programming (Ser. B) 88, 277-284, (2000).

[329] Huth, Martin, *Pshenichnyj-Linearisierung fuer semi-infinite Optimierungsprobleme. (Pshenichnyj's linearization for semi-infinite optimization problems).*, Seminarber., Humboldt-Univ. Berlin, Sekt. Math. 85, 39-48 (1986).

[330] Huth, M. and Tichatschke, R., *A hybrid method for semi-infinite programming problems.*, Operations research, Proc. 14th Symp., Ulm/FRG 1989, Methods Oper. Res. 62, 79-90, (1990).

[331] Ioffe, A.D., *Second order conditions in nonlinear nonsmooth problems of semi-infinite programming.*, in Semi-infinite programming and applications, int. Symp., Austin/Tex. 1981, Lect. Notes Econ. Math. Syst. 215, 261-280, (1983).

[332] Ito, S., Y. Liu, and K.L. Teo, A dual parametrization method for convex semi-infinite programming, *Annals of Oper. Res.* 98, 189-213, (2000).

[333] Ito, S.; Liu, Y.; Teo, K. L., *An approximation approach to non-strictly convex quadratic semi-infinite programming*, J. Global Optim., 30, 2-3, 195–206, (2004).

[334] Jahn, J., *Zur vektoriellen linearen Tschebyscheff-Approximation.*, Math. Operationsforsch. Stat., Ser. Optimization, 14, 577-591, (1983).

[335] G.J.O. Jameson, Topology and Normed Spaces, Chapman and Hall, London, (1974).

[336] Janc, Mirko, *A note on approximate solutions in parametric semi-infinite optimization.*, Mat. Vesn. 6(19)(34), 371-377, (1982).

[337] Janin, Robert and Gauvin, Jacques, *Lipschitz-type stability in nonsmooth convex programs*, SIAM J. Control Optimization, 38, 1, 124-137, (1999).

[338] Jansen, Benjamin, Interior point techniques in optimization. Complementarity, sensitivity and algorithms., Applied Optimization. 6. Dordrecht: Kluwer Academic Publishers. xiv, 277 p., (1997).

[339] Jarre F., *Comparing two interior point approaches for semi-infinite programs*, Prepront, University of Trier, (1999).

[340] D. Jaume and R. Puente, *Curvatura de caras de conjuntos convexos como invariante bajo conjugacion*, techn. report, Departmento de Matemáticas, Universidad Nacional de San Luis, Argentina, (2000).

[341] Jaume, D., and R. Puente, *Representability of convex sets by analytical linear inequality systems*, Linear Algebra Appl. 380, 135-150, (2004).

[342] B. Jerez, *General Equilibrium with Asymmetric Information: A Dual Approach*, techn. report, Department of Economics, Universitat Autnoma de Barcelona, (2000).

[343] Jerez, B., *A dual characterization of incentive efficiency*, J. Econ. Theory, 112, 1-34, (2003).

[344] Jeroslow, Robert G., *Uniform duality in semi-infinite convex optimization.*, Math. Program., 27, 144-154, (1983).

[345] Jeroslow, R.G. and Karney, D.F., *Cluster sets of vector series.*, Adv. Appl. Math., 5, 470-475, (1984).

[346] Jeroslov R.G., Kortanek K.O., *On semi-infinite systems of linear inequalities*, Israel J. Math. 10, 252-258, (1971).

[347] Jess, A., H.Th. Jongen, L. Neralic, and O. Stein, *A semi-infinite programming model in data envelopment analysis*, Optimization 49, 369-385, (2001).

[348] Jeyakumar, V. and Gwinner, J., *Inequality systems and optimization.*, J. Math. Anal. Appl., 159, 1, 51-71, (1991).

[349] Jeyakumar, V. and Wolkowicz, H., *Zero duality gaps in infinite-dimensional programming.*, J. Optimization Theory Appl., 67, 1, 87-107, (1990).

[350] Jeyakumar,V., *Characterizing set containments involving infinite convex constraints and reverse-convex constraints*, SIAM J. Optimization, 13, 947-959, (2003).

[351] Jiang, D.C. and Teo, K.L. and Yan, W.Y., *A new computational method for the functional inequality constrained minimax optimization problem.*, Comput. Math. Appl., 33, 6, 53-63, (1997).

[352] Jiménez, M.A. and Juárez, E.L. and Guerra, F., *Transformation of some mixed approximation problems by optimization methods*, Optimization, 2001, to appear.

[353] Jimenez, Miguel A. and Rueckmann, Jan-J., *On equivalent stability properties in semi-infinite optimization.*, Z. Oper. Res., 41, 2, 175-190, (1995).

[354] Jess A., Jongen H.Th., Neralic L., Stein O., *A semi-infinite programming model in data envelopment analysis*, Optimization 49, 369-385, (2001).

[355] Jongen H.Th., Jonker P., Twilt F., *Nonlinear Optimization in finite Dimensions*, Kluwer, Dordrecht, (2000).

[356] Jongen, Hubertus Th. and Rueckmann, Jan-J., *On stability and deformation in semi-infinite optimization.*, in Reemtsen, Rembert (ed.) et al., Semi-infinite programming. Workshop, Cottbus, Germany, September 1996. Boston: Kluwer Academic Publishers. Nonconvex Optim. Appl. 25, 29-67, (1998).

[357] Jongen, H.Th. and Rückmann, J.-J., *One-parameter families of feasible sets in semi-infinite optimization*, Journal of Global Optimization, 14, 181-203, (1999).

[358] Jongen, Hubertus Th. and Rueckmann, Jan-J. and Weber, Gerd-Wilhelm, *One-parametric semi-infinite optimization: On the stability of the feasible set.*, SIAM J. Optim., 4, 3, 637-648, (1994).

[359] H. Th Jongen, J.-J. Rückmann, O. Stein, *Disjunctive optimization: critical point theory*, J. Optim. Theory Appl. 93, 2, 321-336 (1997).

[360] H. Th Jongen, J.-J. Rückmann, O. Stein, *Generalized semi-infinite optimization: A first order optimality condition and examples*, Mathematical Programming 83, 145-158, (1998).

[361] H. Th Jongen, O. Stein, *On generic one-parametric semi-infinite optimization*, SIAM J. Optim. Vol. 7, no. 4, 1103-1137, (1997).

[362] Jongen, H.Th. and Stein, O., *Parametric semi-infinite programming: Jumps in the set of local minimizers.*, in Guddat, Juergen (ed.) et al., Parametric optimization and related topics IV, Bern: Peter Lang. Approximation Optimization. 9, 161-175, (1997).

[363] Jongen, Hubertus Th. and Triesch, Eberhard, *Optimierung A: Skript zur Vorlesung (Stand Sommersemester 1988).*, Aachen: Augustinus-Buchhandlung. 152 S., (1988).

[364] Jongen, H.Th. and Twilt, F. and Weber, G.W., *Semi-infinite optimization: Structure and stability of the feasible set*, Journal of Optimization. Theory and Applications, 72, 529-552, (1992).

[365] Jongen, H.Th. and Wetterling, W. and Zwier, G., *On sufficient conditions for local optimality in semi-infinite programming.*, Optimization, 18, 165-178, (1987).

[366] Jongen, H.Th. and Zwier, G., *On the local structure of the feasible set in semi-infinite optimization.*, in Parametric optimization and approximation, Conf. Oberwolfach 1983, ISNM 72, 185-202, (1985).

[367] Jongen, H.Th. and Zwier, G., *On regular semi-infinite optimization.*, in Infinite programming, Proc. Int. Symp., Cambridge/U.K. 1984, Lect. Notes Econ. Math. Syst. 259, 53-64, (1985).

[368] H. Th Jongen, G.. Zwier, *On the local structure of the feasible set in semi-infinite optimization*, in: Brosowski, Deutsch (eds.): Int. Ser. Num. Math. 72, Birkhäuser Verlag, Basel, 185-202, (1984).

[369] Jongen H.Th., Twilt F., Weber G.-W. *Semi-infinite optimization: structure and stability of the feasible set*, JOTA, 72, 529-552, (1992)

[370] Jurez, Estela L.; Todorov, Maxim I., *Characterization of the feasible set mapping in one class of semi-infinite optimization problems*, Top 12, 1, 135–147, 92004).

[371] Juergens, Uwe, *Zur Konvergenz semiinfiniter Mehrfachaustauschalgorithmen.*, Fachbereich Mathematik der Universitaet Hamburg. 198 S. (1986).

[372] Juhnke, Friedrich, *The circumsphere problem and linear semi-infinite optimization*, Beiträge Algebra Geom., 28, 147-156, (1989).

[373] Juhnke, Friedrich, *Extremal circumscribed ellipsoids and generalized convexity.*, in Guddat, Juergen (ed.) et al., Parametric optimization and related topics. III, Frankfurt am Main: Peter Lang Verlag. Approximation Optimization. 3, 323-340, (1993).

[374] Juhnke, Friedrich, *Bounds of the affine breadth eccentricity of convex bodies via semi-infinite optimization*, Beitrge Algebra Geom., 45, 2, 557–568, (2004).

[375] Juhnke, F., and O. Sarges, *Minimal spherical shells and linear semi-infinite optimization*, Contributions to Algebra and Geometry 41, 93-105, (2000).

[376] Kaliski, J. and Haglin, D. and Roos, C. and Terlaky, T., *Logarithmic barrier decomposition methods for semi-infinite programming*, International Transactions in Operations Reseach, 4, 285-303, (1997).

[377] Kall, P., *Stochastic programming with recourse: Upper bounds and moment problems - a review.*, in Advances in mathematical optimization, Pap. Dedic. F. Nozicka Occas. 70. Birthday, Math. Res. 45, 86-103, (1988).

[378] Kaplan, A. and Tichatschke, R., *A study of iterative processes for the solution of ill-posed convex variational problems.*, (English. Russian original) Sov. Math., Dokl., 42, 3, 747-750, (1991)

[379] Kaplan, A. and Tichatschke, R., *Iterative processes for solving incorrect convex variational problems.*, in Advances in optimization, Proc. 6th Fr.-Ger. Colloq., Lambrecht/Ger. 1991, Lect. Notes Econ. Math. Syst. 382, 315-329, (1992).

[380] Kaplan, A. and Tichatschke, R, , *Stable approximation schemes for ill-posed convex variational problems.*, Sib. Adv. Math., 2, 1, 123-132, (1992).

[381] Kaplan, A. and Tichatschke, R., *Regularized penalty methods for semi-infinite programming problems.*, in Guddat, Juergen (ed.) et al., Parametric optimization and related topics. III, Frankfurt am Main: Peter Lang Verlag. Approximation Optimization. 3, 341-356, (1993).

[382] Kaplan, A.A. and Tichatschke, R., *A regularized penalty method for solving convex semi-infinite programs.*, Optimization, 26, 3-4, 215-228, (1992).

[383] Kaplan, A.A. and Tichatschke, R., *Adaptive methods of solving ill-posed semi-infinite convex optimization problems.*, Sov. Math., Dokl., 45, 1, 119-123, (1992).

[384] Kaplan, A.A. and Tichatschke, R., *Variational inequalities and convex semi-infinite programming problems.*, Optimization, 26, 3-4, 187-214, (1992).

[385] Kaplan, A. and Tichatschke, R., *Iterative processes for solving incorrect convex variational problems.*, J. Glob. Optim., 3, 2, 243-255, (1993).

[386] Kaplan, Alexander and Tichatschke, Rainer, Stable methods for ill-posed variational problems: prox-regularization of elliptic variational inequalities and semi-infinite problems., Mathematical Topics. 3. Berlin: Akademie Verlag. 437 S., (1994).

[387] Kaplan, A. and Tichatschke, R., *On a class of terminal variational problems.*, in Guddat, Juergen (ed.) et al., Parametric optimization and related topics IV, Bern: Peter Lang. Approximation Optimization. 9, 185-199, (1997).

[388] Kaplan, A. and Tichatschke, R., *Path-following proximal approach for solving ill-posed convex semi-infinite programming problems.*, J. Optimization Theory Appl., 90, 1, 113-137, (1996).

[389] Kaplan A. and Tichatschke, R., *On the numerical treatment of a class of semi-infinite terminal problems.*, Optimization, 41, 1, 1-36, (1997).

[390] A. Kaplan and R. Tichatschke, *Proximal Interior Point Approach in Convex Programming (Ill-Posed Problems)*, Optimization, 45, 117-147, (1999).

[391] A. Kaplan and R. Tichatschke, *Proximal Interior Point Method for Convex Semi-Infinite Programming*, Optimization Methods and Software, (2001).

[392] Karney, D.F., *Duality gaps in semi-infinite programming, an approximation problem*, Math. Programming, 20, 129-143, (1981).

[393] Karney, D.F., *Clark's theorem for semi-infinite convex programs*, Adv. Appl. Math., 2, 7-13, (1981).

[394] Karney, D.F., *A duality theorem for semi-infinite convex programs and their finite subprograms*, Math. Programming, 27, 75-82, (1983).

[395] Karney, D.F., *Symmetric duality: A prelude.*, in Infinite programming, Proc. Int. Symp., Cambridge/U.K. 1984, Lect. Notes Econ. Math. Syst. 259, 29-36, (1985).

[396] Karney, D.F., *In a semi-infinite program only a countable subset of the constraints is essential.*, J. Approximation Theory, 44, 69-72, (1985).

[397] Kawasaki H., *The upper and lower second order directional derivatives of a sup-type function*, Mathematical Programming 41, 327-339, (1988)

[398] Kawasaki H., *An envelope-like effect of infinitely many inequality constraints on second order necessary conditions for minimization problems*, Mathematical Programming 41, 73-96, (1988).

[399] Kawasaki, H., *Second order necessary optimality conditions for minimizing a sup-type function.*, Math. Program., Ser. A , 49, 2, 213-229, (1990).

[400] Kawasaki H., *Second-Order necessary and sufficient optimality conditions for minimizing a sup-type function*, Appl. Math. Optim. 26, 195-220, (1992).

[401] Kawasaki, Hidefumi (ed.), Discrete and continuous structures in optimization. Proceedings of a symposium held at the Research Institute for Mathematical Sciences, Kyoto University, Kyoto, Japan, November 6–11, 1995., RIMS Kokyuroku 945, 211 p. (1996).

[402] Kemperman, J.H.B, *On the role of duality in the theory of moments.*, in Semi-infinite programming and applications, int. Symp., Austin/Tex. 1981, Lect. Notes Econ. Math. Syst. 215, 63-92, (1983).

[403] P.S. Kenderov, *Most of the optimization problems have unique solution*, in Parametric Optimization and Approximation, 1985, (eds.) B. Brosowski and F. Deutsch, 203-216, Birkhuser, Basel.

[404] Khristov, G. and Todorov, M., *Semi-infinite optimization. Existence and uniqueness of the solution*, Math. Balk., 2, 182-191, (1988).

[405] Kirillova, F.M. and Gabasov, R. and Gajshun, P.V., *Algorithm for the solution of a linear programming problem with a continuum of constraints.*, (Russian. English summary) Dokl. Akad. Nauk BSSR, 30, 1068-1071, (1986).

[406] Kiwiel, Krzysztof C., *A linearization algorithm for optimizing control systems subject to singular value inequalities.*, IEEE Trans. Autom. Control AC-31, 595-602, (1986).

[407] Klatte, Diethard, *Sensitivity analysis in nonlinear optimization.*, in Operations research, Proc. 15th Symp., Vienna/Austria 1990, Methods Oper. Res. 64, 81-90, (1991).

[408] Klatte, Diethard, *Stability of stationary solutions in semi-infinite optimization via the reduction approach.*, in Advances in optimization, Proc. 6th Fr.-Ger. Colloq., Lambrecht/Ger. 1991, Lect. Notes Econ. Math. Syst. 382, 155-170, (1992).

[409] Klatte, Diethard, *Perturbation of stationary solutions in semi-infinite optimization.*", in Henry, Jacques (ed.) et al., System modelling and optimization. Proceedings of the 16th IFIP-TC7 conference, Compiegne, France, July 5-9, 1993. London: Springer-Verlag. Lect. Notes Control Inf. Sci. 197, 167-176, (1994).

[410] Klatte, Diethard, *Stable local minimizers in semi-infinite optimization: Regularity and second-order conditions.*, J. Comput. Appl. Math., 56, 1-2, 137-157, (1994).

[411] Klatte, D., *Lipschitz stability and Hoffmans error bounds for convex inequality systems.*, in Parametric optimization and related topics IV, Approx. Optim. 9, 201-212, Lang, Frankfurt am Main, (1997).

[412] Klatte, D., *Hoffman's error bound for systems of convex inequalities*, in Mathematical programming with data perturbations. 17th symposium", (ed.) Fiacco, A., Marcel Dekker, 185-199, (1997).

[413] Klatte, D. and R. Henrion, *Regularity and stability in nonlinear semi-infinite optimization.* in R. Reemtsen and J. Rückmann (eds.), Semi-infinite Programming, Kluwer, Dordrecht, 69-102, (1998).

[414] Klatte, D. and Li, W., *Asymptotic constraint qualifications and global error bounds for convex inequalities*, Mathematical Programming,, B 84, 137-160, (1999).

[415] Klatte, D. and Tammer, K., *On second-order sufficient optimality conditions for $C^{1,1}$-optimization problems.*, Optimization, 19, 2, 169-179, (1988).

[416] Klatte, Diethard and Walzebok, Ralf, *Hinreichende Optimalitaetsbedingungen fuer semi-infinite Optimierungsaufgaben als spezielle $C^{1,1}$-Probleme. (Sufficient optimality conditions for semi-infinite optimization problems as special $C^{1,1}$-problems.).*, Wiss. Z. Paedagog. Hochsch. Halle/Koethen 28, No.4, 24-28, (1990).

[417] Kloetzler, R., *Flussoptimierung. (Flow optimization).*, Z. Angew. Math. Mech. 74, No.6, T 593-T 595, (1994).

[418] Koch, W. and Langensiepen, G. and Strauchmann, H., *Zur Loesung getriebetechnischer Syntheseaufgaben mit einem Programmsystem zur Behandlung nichtlinearer Optimierungsaufgaben.*, Seminarber., Humboldt-Univ. Berlin, Sekt. Math. 50, 186-194, (1983).

[419] Kocvara, Michal and Zowe, Jochem, *Free material optimization.*, Doc. Math., J. DMV, Extra Vol. ICM Berlin 1998, vol. III, 707-716, (1998).

[420] M. Kojima and L. Tunel, *Discretization and Location in Succesive Convex Relaxation Methods for Nonconvex Quadratic Optimization Problems*, technical report, Department of Mathematical and Computing Sciences, Tokyo Institute of Technology, (1998).

[421] Kolbin, V.V., Systems optimization methodology. Part 2. Transl. from the Russian by Y. M. Donets., Singapore: World Scientific. xi, 310 p., (1999).

[422] Kornstaedt, Hans-Joachim, *Necessary conditions of higher order for semi-infinite programming.*, in Semi-infinite programming, Proc. Workshop Bad Honnef 1978, Lect. Notes Control Inf. Sci. 15, 31-50, (1979).

[423] Kortanek, K.O., *Constructing a perfect duality in infinite programming*, Appl. Math. Opt. 3, 357-372, (1977).

[424] Kortanek, K.O., *Perfect duality in semi-infinite and generalized convex programming.*, in Operations Research Verfahren XXV, Symp. Heidelberg 1976, Teil 1, 79-87, (1977).

[425] Kortanek, K.O., *Using generalized finite sequences in mathematical physics*, Dep. of Matematics, Carnegie Mellon University, Pittsburgh, (1984).

[426] Kortanek, K.O., *Semi-infinite programming and continuum physics.*, in Infinite programming, Proc. Int. Symp., Cambridge/U.K. 1984, Lect. Notes Econ. Math. Syst. 259, 65-78, (1985).

[427] Kortanek, K.O., *Semi-infinite programming duality and finite elements in plane stress plasticity.*, Util. Math., 28, 219-242, (1985).

[428] Kortanek, K.O., *Semi-infinite programming duality for order restricted statistical inference models.*, Z. Oper. Res., 37, 3, 283-301, (1993).

[429] Kortanek, K.O., *Vector-supercomputer experiments with the primal affine linear programming scaling algorithm.*, SIAM J. Sci. Comput., 14, 2, 279-294, (1993).

[430] Kortanek, K.O., *On the 1962-1972 decade of semi-infinite programming: a subjective view*, in Goberna, M.A. and López, M.A. (Eds.), Semi-Infinite Programming. Recent Advances, Kluwer Verlag, 3-41, (2001).

[431] Kortanek, K.O. and Moulin, Pierre, *Semi-infinite programming in orthogonal wavelet filter decision.*, in Reemtsen, Rembert (ed.) et al., Semi-infinite programming. Workshop, Cottbus, Germany, September 1996. Boston: Kluwer Academic Publishers. Nonconvex Optim. Appl. 25, 323-360, (1998).

[432] Kortanek, K.O. and No, Hoon, *A central cutting plane algorithm for convex semi-infinite programming problems.*, SIAM J. Optim., 3, 4, 901-918, (1993).

[433] Kortanek, K.O. and Strojwas, H.M., *On extreme points of bounded sets of generalized finite sequence spaces*, Zeitschrift fr Operations Research, A27, 145-157, (1983).

[434] Kortanek, K.O. and Strojwas, H.M., *On constraint sets of infinite linear programs over ordered fields*, Mathematical Programming, 33, 146-161, (1985).

[435] Kortanek, Kenneth O. and Yamasaki, Maretsugu, *Semi-infinite transportation problems.*, J. Math. Anal. Appl., 88, 555-565, (1982).

[436] K.O. Kortanek and V.G. Medvedev, Building and Using Dynamic Interest Rate Models, Wiley, Chichester, 2001.

[437] Kortanek K.O., Yamasaki M., *Semiinfinite transportation problems*, J. Mat. Anal. Appl., 88, 555-565, (1982).

[438] K.O. Kortanek and Q. Zhang, *Perfect duality in semi-infinite and semidefinite programming*, Math. Programming (Ser. A) 91, 127-144, (2001).

[439] Kortanek, K.O., Zhu J., *New purification algorithms for linear programming*, Nav. Res. Logist. 35, 571-683, (1988).

[440] Kostyukova, O.I., *Superbasis plans of a linear extremal problem with a continuum of constraints.*, (Russian. English summary) Dokl. Akad. Nauk BSSR , 33, 8, 687-689, (1989).

[441] Kostyukova, O.I., An algorithm constructing solutions for a family of linear semi-infinite problems, *J. Optimization Theory Appl.* 110, 585-609, (2001).

[442] Kostyukova, O. I., *The method of the continuation of the solution with respect to the parameter for a family of semi-infinite programming problems* (Russian) VestsīNats. Akad. Navuk BelarusīSer. Fīz.-Mat. Navuk, no. 2, 5–10, 124, (2002).

[443] Krawczyk, R., *Die Anwendung der dynamischen Optimierung auf ein verallgemeinertes Knapsackproblem. (Application of dynamic programming to a generalized knapsack problem.)*, Angew. Informatik 1972(14), 34-36, (1972).

[444] Krishnan, K., and J.E. Mitchel, Semi-infinite linear programming approaches to semidefinite programming problems, in P. Pardalos (ed.), Novel Approaches to Hard Discrete Optimization, American Mathematical Society, Providence, RI, 121-140, (2003).

[445] Kulkarni, S.H. and Sivakumar, K.C., *Explicit solvability of a class of infinite linear economic models.*, Indian J. Pure Appl. Math., 26, 3, 217-223, (1995).

[446] Kuschel, Norbert and Rackwitz, Ruediger, *Two basic problems in reliability-based structural optimization.*, Math. Methods Oper. Res., 46, 3, 309-333, (1997).

[447] Lai, H.C. and Wu, S.Y., *Extremal points and optimal solutions for general capacity problems.*, Math. Program., Ser. A, 54, 1, 87-113, (1992).

[448] Lai, H.-C. and Wu, S.-Y., *On linear semi-infinite programming problems: An algorithm*, Numerical Functional Analysis and Optimization, 13, 287-304, (1992).

[449] Lai, H.C. and Wu, S.Y., *Linear programming in measure spaces.*, Optimization, 29, 2, 141-156, (1994).

[450] Lawrence, Craig T. and Tits, Andre L., *Feasible sequential quadratic programming for finely discretized problems from SIP.*, in Reemtsen, Rembert (ed.) et al., Semi-infinite programming. Workshop, Cottbus, Germany, September 1996. Boston: Kluwer Academic Publishers. Nonconvex Optim. Appl. 25, 159-193, (1998).

[451] Le, Weilliang and Peng, Qinke and Hu, Baosheng, *A general embedded optimization problem.*, (Chinese. English summary) J. Syst. Sci. Math. Sci., 9, 2, 83-90, (1989).

[452] Lemarechal, Claude, *Nondifferentiable optimization.*, Nonlinear optimization, theory and algorithms; Proc. int. Summer Sch., Bergamo/Italy 1979, 149-199, (1980).

[453] Leon, Teresa and Sanmatias, Susana and Vercher, Enriqueta, *A multi-local optimization algorithm.*, Top , 6, 1, 1-18, (1998).

[454] Leon, Teresa and Vercher, Enriqueta, *A purification algorithm for semi-infinite programming.*, Europ. J. Oper. Res., 57, 3, 412-420, (1992).

[455] Leon, T. and Vercher, E., *An optimality test for semi-infinite linear programming.*, Optimization, 26, 1-2, 51-60, (1992).

[456] Leon, Teresa and Vercher, Enriqueta, *New descent rules for solving the linear semi-infinite programming problem.*, Oper. Res. Lett., 15, 2, 105-114, (1994).

[457] León T., Vercher E., *Optimization under uncertainty and linear semi-infinite programming: a survey.* Semi-infinite programming, Eds. Goberna/López, (Alicante, 1999), 327–348, Nonconvex Optim. Appl., 57, Kluwer Acad. Publ., Dordrecht, (2001).

[458] T. León and S. Sanmatías and E. Vercher, *A Multilocal Optimization Algorithm*, TOP, 6, 1-18, (1998).

[459] T. León and S. Sanmatías and E. Vercher, *On the Numerical Treatment of Linearly Constrained Semi-Infinite Optimization Problems*, European Journal of Operations Research, 121, 78-91, (2000).

[460] Levinson N., *A class of continuous linear programming problems*, J. Math. Anal. Appl., 16, 73-83, (1966).

[461] Levitin, Evgeny S., *On differential properties of approximate optimal solutions in parametric semi-infinite programming.*, in Gritzmann, Peter (ed.) et al., Recent advances in optimization, Berlin: Springer. Lect. Notes Econ. Math. Syst. 452, 168-182, (1997).

[462] Levitin, Evgeny S., *Reduction of generalized semi-infinite programing problems ro semi-infinite or piece-wise smooth programming problems*, Preprint, 8-2001, University of Trier, (2001).

[463] Levitin, E. and Tichatschke, R., *A branch-and-bound approach for solving a class of generalized semi-infinite programming problems.*, J. Glob. Optim., 13, 3, 299-315, (1998).

[464] Levitin, E. and Tichatschke, R., *On smoothing of parametric minimax-functions and generalized max-functions via regularization.*, J. Convex Anal., 5, 2, 199-220, (1998).

[465] Lewis, A.S., *Extreme points and purification algorithms in general linear programming.*, in Infinite programming, Proc. Int. Symp., Cambridge/U.K. 1984, Lect. Notes Econ. Math. Syst. 259, 123-135, (1985).

[466] Lewis, A.S., *The convergence of entropic estimates for moment problems.*, in Functional analysis and optimization, Workshop/Miniconf., Canberra/Australia 1988, Proc. Cent. Math. Anal. Aust. Natl. Univ. 20, 100-115, (1988).

[467] Lewis, Adrian, *Extreme points of infinite transportation problems.*, Methods Oper. Res., 53, 115-126, (1986).

[468] Lewis, A.S., *Facial reduction in partially finite convex programming.*, Math. Program. 65 A, No.2, 123-138, (1994).

[469] Lewis, A.S. and Pang, J.-S., *Error bounds for convex inequalities systems*, in Generalized convexity, generalized monotonocity: recent results, (sds.) Cruzeix, J.-P. and Martínez-Legaz, J.E. and Volle, M., Kluwer, 75-110, (1998).

[470] Lewis, A.S. and Philpott, A.B, *Experiments with affine scaling and semi-infinite programming.*, N. Z. J. Math., 24, 2, 49-71, (1995).

[471] W. Li and C. Nahak and I. Singer, *Constraint Qualifications for Semi-Infinite Systems of Convex Inequalities*, SIAM Journal on Optimization, 11, 31-52, (2000).

[472] Li, W. and Singer, I., *Asymptotic constraint qualifications and error bounds for semi-infinite systems of convex inequalities*, in Semi-Infinite Programming: Recent Advances, (eds.) Goberna, M.A. and López, M.A., Kluwer, (2001).

[473] Li, Zemin, *On optimality conditions in semi-infinite vector optimization problems.*, (Chinese. English summary) J. Syst. Sci. Math. Sci., 14, 4, 375-380, (1994).

[474] Li, Baoxiu and Shen, Yu. *An exact penalty function for a class of semi-infinite programming.*, (Chinese. English summary) J. Lanzhou Univ., Nat. Sci., 26, 2, 21-27, (1990).

[475] Li, Dong-Hui; Qi, Liqun; Tam, Judy; Wu, Soon-Yi*A smoothing Newton method for semi-infinite programming*, J. Global Optim., 30, 2-3, 169–194, (2004).

[476] Li, Shi Zheng and Wang, Qing Wen, *Saddle points and duality in semi-infinite programming.*, (Chinese) Acta Math. Sci. (Chin. Ed.) , 16, 2, 174-178, (1996).

[477] , Li, S. J.; Yang, X. Q.; Teo, K. L., *Duality for semi-definite and semi-infinite programming. Theory, methods and applications of optimization*, Optimization 52, no. 4-5, 507–528, (2003).

[478] Li, S. J.; Yang, X. Q.; Teo, K. L.; Wu, S. Y., *A solution method for combined semi-infinite and semi-definite programming*, ANZIAM J., 45, 4, 477–494, (2004).

[479] Lin, C.-J. and Fang, S.-C. and Wu, S.-Y., *A dual affine scaling based algorithm for solving linear semi-infinite programming problems.*, in Du, Ding-Zhu (ed.) et al., Advances in optimization and approximation. Dordrecht: Kluwer Academic Publishers. Nonconvex Optim. Appl. 1, 217-234, (1994).

[480] Lin, C.-J. and Fang, S.-C. and Wu, Soon-Yi, Parametric linear semi-infinite programming., Appl. Math. Lett., 9, 3, 89-99, (1996).

[481] Lin, C. and Fang, S. and Wu, S., *An unconstrained convex programming approach to linear semi-infinite programming*, SIAM Journal on Optimization, 8, 443-456, (1998).

[482] Lin, Chih-Jen and Yang, Eugene K. and Fang, Shu-Cherng and Wu, Soon-Yi, *Implementation of an inexact approach to solving linear semi-infinite programming problems.*, J. Comput. Appl. Math., 61, 1, 87-103, (1995).

[483] Linnemann, A., *Higher order necessary conditions for infinite and semi-infinite optimization.*, Rep., Forschungsschwerpunkt Dyn. Syst. 10, 44 p. (1980).

[484] Linnemann, A., *Higher-order necessary conditions for infinite and semi-infinite optimization.*, J. Optimization Theory Appl., 38, 483-511, (1982).

[485] Linnemann, A., *Higher-order necessary conditions for infinite and semi-infinite optimization.*, J. Optimization Theory Appl.

[486] Liou, Yeong-Cheng; Wu, Soon-Yi; Yao, Jen-Chih, *Bilevel decision with generalized semi-infinite optimization for fuzzy mappings as lower level problems*, Fuzzy Optim. Decis. Mak., 4, 1, 41–50. (2005).

[487] Liu, Anlin, *The duality of semi-infinite linear programs.*, (Chinese. English summary) J. East China Norm. Univ., Nat. Sci. Ed., 1, 7-12, (1988).

[488] Liu, Y. and Teo, K.L. and Ito, S., *A dual parametrization approach to linear-quadratic semi-infinite programming problems*, Optimization Methods and Software, 10, 471-495, (1999).

[489] Liu, Y. and Teo, K.L. and Ito, S., *Global optimization in quadratic semi-infinite programming*, Topics in Numerical Analysis, Computing Supplement, 51, 119-132, (2001).

[490] Liu, Y.; Teo, K. L.; Wu, S. Y. *A new quadratic semi-infinite programming algorithm based on dual parametrization*, J. Global Optim., 29, 4, 401–413, (2004).

[491] Liu, Y.; Tseng, C. H.; Teo, K. L., *A unified quadratic semi-infinite programming approach to time and frequency domain constrained digital filter design*, Commun. Inf. Syst. 2, no. 4, 399–410, (2002).

[492] Lopez Cerda, Marco A., *Theory of systems of infintely many linear inequalities and semi-infinite programming.*, (Spanish) Rev. R. Acad. Cienc. Exactas Fis. Nat. Madr., 75, 480-484, (1981).

[493] Lopez, Marco Antonio, *Stability and well-posedness in linear semi-infinite optimization.*, in Garcia, C. (ed.) et al., Proceedings of the 4th Catalan days on Applied Mathematics, Tarragona, Spain, February 11-13, 1998. Tarragona: Univ., Department d'Enginyeria Informatica, 163-174 (1998).

[494] Lopez, M.A. and Mira, J.A. and Torregrosa, G., *On the stability of infinite-dimensional linear inequality systems.*, Numer. Funct. Anal. Optimization, 19, 9-10, 1065-1077, (1998).

[495] López, Marco A.; Rubinov, Alexander M.; Vera de Serio, Virginia N. *Stability of semi-infinite inequality systems involving min-type functions*, Numer. Funct. Anal. Optim., 26, 1, 81–112, (2005)

[496] López, M.A. and Vera de Serio, V.N., *Stability of the feasible set mapping in convex semi-infinite programming*, in Semi-Infinite Programming: Recent Advances, (eds.) Goberna, M.A. and López, M.A., Kluwer, (2001).

[497] M.A. López and E. Vercher, *Optimality Conditions for Nondifferentiable Convex Semi-Infinite Programming*, Mathematical Programming, 27, 307-319, (1983).

[498] Llorca, Natividad; Tijs, Stef; Timmer, Judith, *Semi-infinite assignment problems and related games*, Math. Methods Oper. Res. 57, no. 1, 67–78, (2003).

[499] Luc, D.T and Martínez-Legaz, J.E. and Seeger, A., *Least deviation decomposition with respect to a pair of convex sets*, Journal of Convex Analysis, 6, 115-140, (1998).

[500] Luo, X. and Bertsimas, D., *A new algorithm for state-constrained separated continuous linear programs*, SIAM Journal on Control and Optimization, 37, 177-210, (1999).

[501] Luo, Z.-Q., Pang, J.-S. and D. Ralph, Mathematical Programs with Equilibrium Constraints, Cambridge University Press, Cambridge, (1997).

[502] Luo, Z.-Q. and Roos, C. and Terlaky, T., *Complexity analysis of logaritmic barrier decomposition for semi-infinite linear programming*, Applied Numerical Mathematics, 29, 379-394, (1999).

[503] L. McLinden, *Stable Monotone Variational Inequalities*, Mathematical Programming, 48, 303-338, (1990).

[504] Marchi, E. and Puente, R. and Vera de Serio, V.N., *Quasi-polyhedral sets in semi-infinite linear inequality systems*, Linear Algebra and its Applications, 255, 157-169, (1997).

[505] Marinacci, M. and L. Montrucchio, Subcalculus for set functions and cores of TU games, *J. Mathematical Economics* 39, 1-25, (2003),

[506] Martini, H. and Soltan, V., *Combinatorial properties on the illumination of convex bodies*, Aequationes Mathematicae, 57, 121-152, (1999).

[507] Mayne, D.Q. and Polak, E., *Aquadratically convergent algorithm for solving infinite dimansional inequalities*, J. Appl. Math. Optim. 9, 15-40, (1982).

[508] Mayne, D.Q. and Polak, E. and Sangiovanni-Vincentelli, A., *Computer aided design via optimization.*, in Control applications of nonlinear programming, Proc. IFAC Workshop, Denver/Colo. 1979, 85-91, (1980).

[509] Mayne, D.Q. and Michalska, H. and Polak, E., *An efficient algorithm for solving semi-infinite inequality problems with box constraints.*, Appl. Math. Optimization, 30, 2, 135-157, (1994).

[510] Medvegyev, Peter, *Semi-infinite linear programming and mathematical economics.*, (Hungarian. English summary) Szigma, 18, 105-121, (1985).

[511] Medvedev, V.G., *A numerical experiment with respect to the solution of semi-infinite linear extremal problems.*, (Russian) Vestn. Beloruss. Gos. Univ. Im. V. I. Lenina, Ser. I, 3, 66-69, (1992).

[512] Medvedev, Vladimir G., *Numerical method for the optimal estimation of the initial state of linear dynamic systems.*, in Computational systems analysis, Proc. 4th Int. Symp. Syst. Anal. Simulation, Berlin/Ger. 1992, 129-134, (1992).

[513] Medvedev, Vladimir G., *Optimal observation of initial state and input disturbances for dynamic systems.*, Syst. Anal. Modelling Simulation, 14, 4, 275-288, (1994).

[514] Meinardus G., *Approximation of functions: Theory and numerical methods*, Springer–Verlag, Berlin (1967).

[515] Melendreras Gimeno, Ramiro and Ramos Mendez, Eduardo, *Testing a composite hypothesis against a simple alternative via infinite mathematical programming.*, (Spanish. English summary) Rev. R. Acad. Cienc. Exactas Fis. Nat. Madr., 78, 109-118, (1984).

[516] Meng, Zhiqing, *Exact penalty function, calmness and stability in locally Lipschitz semi-infinite programming.*, (Chinese. English summary) Nat. Sci. J. Xiangtan Univ., 14, 2, 89-99, (1992).

[517] Meyn, K.H., *A discretization method for systems of linear inequalities.*, J. Optimization Theory Appl., 34, 355-369, (1981).

[518] Mine, Hisashi and Fukushima, Masao and Tanaka, Yoshihiro, *On the use of ϵ-most-active constraints in an exact penalty function method for nonlinear optimization.*, IEEE Trans. Autom. Control AC-29, 1040-1042 (1984).

[519] Mira, J. A., and G. Mora, *Stability of linear inequality systems measured by the Hausdorff metric*, Set-Valued Analysis *8*, 253-266, (2000).

[520] Mouthaan E., Still G., *Uniqueness results for some vector-valued approximation problems*, Approximation and Optimization, Guddat et al. (Eds.), Peter Lang, pp. 607-629, (1995).

[521] Muganda, Godfrey Chamba, *Convergence of constrained optimization problems.*, Util. Math., 37, 215-221, (1990).

[522] Müller, J., *Accelerated polynomial approximation of finite order entire functions by growth reduction*, Mathematics of Computation, 66, 743-761, (1997).

[523] Nebeling V., *Eine Schnittmethode für die Lösung semi-infiniter quadratischer Optimierungsaufgaben*, Thesis, Pädag. Hochschule Halle, (1985).

[524] Nash, P., *Algebraic fundamentals of linear programming*, in Anderson, E.J. and Philpott, A.B. (eds.), Infinite Programming, 37-52, Springer Verlag, (1985).

[525] Ng, Wai-Yin, Interactive multi-objective programming as a framework for computer-aided control system design., Lecture Notes in Control and Information Sciences, 132. Berlin etc.: Springer-Verlag. XV, 182 p., (1989).

[526] Ng, K.F., and W.H. Yang, *Error bounds for abstract linear inequality systems*, SIAM J. Optim. 13, 24-43, (2002).

[527] Nordebo, S. and Zhuquan, Z., *Semi-Infinite Linear Programming: A Unified Approach to Digital Filter Design with Time- and Frequency-Domain Specifications*, IEEE Transactions on Circuits and Systems - II: Analog and Digital Signal Processing, 46, 765-775, (1999).

[528] Nordholm, S., J. Nordberg, I. Claesson, and S. Nordebo, *Beamforming and interference cancellation for capacity gain in mobile networks*, Annals of Oper. Res. 98, 235-253, (2001).

[529] Noubiap, R.F., and W. Seidel, *An algorithm for calculating Gamma-minimax decision rules under generalized moment conditions*, *Ann. Stat.* 29, 1094-1116, (2001).

[530] Novikova, N.M., *Iterative regularization for semiinfinite optimization problems.*, Cybernetics, 27, 1, 115-120, (1991).

[531] Novikova, N.M., *Iterativ stochastic methods for solving variational problems of mathematical physics and operations research.*, J. Math. Sci., 68, 1, 1-124, (1994).

[532] Nűrnberger G., *Global unicity in semi-infinite optimization*, Numer. Funct. Anal. and Optimiz., 8(1), 173-191, (1985).

[533] Nuernberger, Guenther, *Unicity in semi-infinite optimization.*, in Parametric optimization and approximation, Conf. Oberwolfach 1983, ISNM 72, 231-247, (1985).

[534] Oettershagen K., *Ein superlinear konvergenter Algorithmus zur Lösung semi-infiniter Optimierungsprobleme*, Thesis, University of Bonn, (1982).

[535] Opfer G., *Solving complex approximation problems by semi-infinite optimization techniques: A study on convergence*, Numer. Math. 39, 411-420, (1982).

[536] Opfer, Gerhard, *Numerische Behandlung komplexer Approximationsaufgaben. (Numerical treatment of complex approximation problems).*, Nova Acta Leopold., Neue Folge, 61, 267, 75-80, (1989).

[537] Osborne, M.R., *An algorithm for minimizing polyhedral convex functions.*, in Semi-infinite programming and applications, int. Symp., Austin/Tex. 1981, Lect. Notes Econ. Math. Syst. 215, 179-192, (1983).

[538] Outrata J., Kovcvara M., Zowe J., Nonsmooth approach to optimization problems with equilibrium constraints. Theory, applications and numerical results, Nonconvex Optimization and its Applications, 28. Kluwer Academic Publishers, Dordrecht, (1998).

[539] Pales, Zsolt and Zeidan, Vera, *Optimum problems with certain lower semicontinuous set-valued constraints.*, SIAM J. Optim., 8, 3, 707-727, (1998).

[540] Panier, Eliane R. and Tits, Andre L., *A globally convergent algorithm with adaptively refined discretization for semi-infinite optimization problems arising in engineering design.*, IEEE Trans. Autom. Control, 34, 8, 903-908, (1989).

[541] Papayanopoulos, L., *On the partial construction of the semi-infinite Banzhaf polyhedron.*, in Semi-infinite programming and applications, int. Symp., Austin/Tex. 1981, Lect. Notes Econ. Math. Syst. 215, 207-218, (1983).

[542] Parks, M.L.jun. and Soyster, A.L., *Semi-infinite and fuzzy set programming.*, in Semi-infinite programming and applications, int. Symp., Austin/Tex. 1981, Lect. Notes Econ. Math. Syst. 215, 219-235, (1983).

[543] R.R. Phelps, Convex Functions, Monotone Operators and Differentiability, Springer-Verlag, New York-Heidelberg-Berlin, (1993).

[544] Philpott, A.B., *Some recent developments in infinite programming.*, in Kumar, Santosh (ed.), Recent developments in mathematical programming. Philadelphia, PA: Gordon and Breach Science Publishers, 45-60, (1991).

[545] Phua, K.H.(ed.) and Wang, C.M.(ed.) and Yeong, W.Y.(ed.) and Leong, T.Y.(ed.) and Loh, H.T.(ed.) and Tan, K.C.(ed.) and Chou, F.S.(ed.), *Optimization. Vol. 1, 2. Techniques and applications.* Proceedings of the international conference, ICOTA, Singapore, June 3–5, 1992., Singapore: World Scientific. 1232 p., (1992).

[546] Pokataev, A.V., *An algorithm of polynomial approximation for solving a general geometric programming problem.*, (Russian. English summary) Izv. Akad. Nauk BSSR, Ser. Fiz.-Mat. Nauk 1986, No.4, 22-28, (1986).

[547] Polak E., *An implementable algorithm for the optimal design centering, tolerancing and tuning problem*, Journ. Optim. Theory and Appl. 37, 45-67, (1982).

[548] Polak, E., *Semi-infinite optimization in engineering design.*, in Semi-infinite programming and applications, int. Symp., Austin/Tex. 1981, Lect. Notes Econ. Math. Syst. 215, 234-248, (1983).

[549] Polak, E., *A modified Nyquist stability test for use in computer-aided design.*, IEEE Trans. Autom. Control AC-29, 91-93, (1984).

[550] Polak E., *On the mathematical foundation of nondifferentiable optimization in engineering design*, SIAM Rev., 29, 21-89, (1987).

[551] Polak, E., *On the use of consistent approximations in the solution of semi-infinite optimization and optimal control problems.*, Math. Program. 62B, No.2, 385-414, (1993).

[552] Polak, Elijah, *Smoothing techniques for the solution of finite and semi-infinite min-max-min problems*, High performance algorithms and software for nonlinear optimization (Erice, 2001), Appl. Optim., 82, Kluwer Acad. Publ., Norwell, MA, 343–362, (2003).

[553] Polak, E. and He, L., *Finite-termination schemes for solving semi-infinite satisfycing problems.*, J. Optimization Theory Appl., 70, 3, 429-442, (1991).

[554] Polak, E. and He, L., *Unified steerable phase I-phase II method of feasible directions for semi-infinite optimization.*, J. Optimization Theory Appl., 69, 1, 83-107, (1991).

[555] Polak, Elijah and He, Limin, *Rate-preserving discretization strategies for semi-infinite programming and optimal control.*, SIAM J. Control Optimization, 30, 3, 548-572, (1992).

[556] Polak, E. and Higgins, J.E. and Mayne, D.Q., A barrier function method for minimax problems., Math. Program., Ser. A, 54, 2, 155-176, (1992).

[557] Polak, E. and Mayne, D.Q., *Algorithm models for nondifferentiable optimization.*, SIAM J. Control Optimization, 23, 477-491, (1985).

[558] Polak, E. and Mayne, D.Q. and Higgins, J.E., *On the extension of Newton's method to semi-infinite minimax problems.*, SIAM J. Control Optimization, 30, 2, 367-389, (1992).

[559] Polak, E.; Royset, J. O., *Algorithms for finite and semi-infinite min-max-min problems using adaptive smoothing techniques*, J. Optim. Theory Appl. 119, no. 3, 421–457, (2003).

[560] Polak, E. and Salcudean, S.E., *Algorithms for optimal feedback design.*, in Linear circuits, systems and signal processing, Sel. Pap. 8th Int. Symp. Math. Theory Networks Syst., Phoenix/Ariz. 1987, 581-590, (1988).

[561] Polak, Elijah and Salcudean, S.E. and Mayne, D.Q., *Adaptive control of ARMA plants using worst-case design by semi-infinite optimization.*, IEEE Trans. Autom. Control AC-32, 388-396, (1987).

[562] Polak E., Tits A.L., *A recursive quadratic programming algorithm for semi-infinite optimization problems*, J. Appl. Math. Optimiz. 8, 325-349, (1982).

[563] Polak, Elijah and Stimler, Daniel M., *Majorization: A computational complexity reduction technique in control system design.*, IEEE Trans. Autom. Control AC-33, No.11, 1010-1021, (1988).

[564] Polak, E. and Yang, T.H. and Mayne, D.Q., *A method of centers based on barrier functions for solving optimal control problems with continuum state and control constraints.*, SIAM J. Control Optimization, 31, 1, 159-179, (1993).

[565] Polak, E. and Wardi, Y., *A nondifferentiable optimization algorithm for the design of control systems subject to singular value inequalities over a frequency range.*, in Control science and technology for the progress of society, Proc. 8th trienn. World Congr. IFAC, Kyoto 1981, Vol. 1, Control theory, 525-530, (1982)

[566] Polak, E. and Wuu, T.L., *On the design of stabilizing compensators via semiinfinite optimization.*, IEEE Trans. Autom. Control AC-34, No.2, 196-200, (1989).

[567] Poljak, Svatopluk and Rendl, Franz, *Nonpolyhedral relaxations of graph-bisection problems.*, SIAM J. Optim., 5, 3, 467-487, (1995).

[568] Potchinkov, Alexander W., *Design of optimal linear phase FIR filters by a semi-infinite programming technique.*, Signal Process., 58, 2, 165-180, (1997).

[569] Potchinkov, Alexander W., *The design of nonrecursive digital filters via convex optimization.*, in Reemtsen, Rembert (ed.) et al., Semi-infinite programming. Workshop, Cottbus, Germany, September 1996. Boston: Kluwer Academic Publishers. Nonconvex Optim. Appl. 25, 361-387, (1998).

[570] Potchinkov, A. and Reemtsen, R., *A globally most violated cutting plane method for complex minimax problems with application to digital filter design.*, Numer. Algorithms, 5, 1-4, 611-620, (1993).

[571] Potchinkov, A. and Reemtsen, R., *The design of FIR filters in the complex plane by convex optimization.*, Signal Process., 46, 2, 127-146, (1995).

[572] Potchinkov, Alexander W. and Reemtsen, Rembert M., *The simultaneous approximation of magnitude and phase by FIR digital filters. I: A new approach.*, Int. J. Circuit Theory Appl., 25, 3, 167-177, (1997).

[573] Poterasu, Victor Florin, *Critical point constraints in nonlinear programming.*, Methods Oper. Res., 49, 63-76, (1985).

[574] Powell, M.J.D., *A tolerant algorithm for linearly constrained optimization calculations.*, Math. Program., Ser. B, 45, 3, 547-566, (1989).

[575] Powell, M.J.D., *Log barrier methods for semi-infinite programming calculations.*, in Lipitakis, Elias A. (ed.), Hellenic research in mathematics and informatics '92. Proceedings of the first Hellenic conference on mathematics and informatics, 25-26 September 1992, Athens, Hellas. Athens: Hellenic Mathematical Society, 23-43, (1992).

[576] Powell, M.J.D., *On the number of iterations of Karmarkar's algorithm for linear programming.*, Math. Program. 62B, No.1, 153-197, (1993).

[577] Price, C.J. and Coope, I.D., *An exact penalty function algorithm for semi-infinite programmes.*, BIT, 30, 4, 723-734, (1990).

[578] Price, C.J. and Coope, I.D., *Numerical experiments in semi-infinite programming.*, Comput. Optim. Appl., 6, 2, 169-189, (1996).

[579] R. Puente and V. Vera de Serio, *Locally Farkas-Minkowski Linear Semi-Infinite Systems*, Report, Universidad Nacional de Cuyo, Mendoza, Argentina, (1996).

[580] Puente, R. and Vera de Serio, V., *Locally Farkas-Minkowski linerar semi-infinite systems*, TOP, 7, 103-121, (1999).

[581] Qi, Liqun; Wu, Soon-Yi; Zhou, Guanglu, *Semismooth Newton methods for solving semi-infinite programming problems*, International Workshop on Optimization with High-Technology Applications (OHTA 2000) (Hong Kong). J. Global Optim. 27, no. 2-3, 215–232, (2003).

[582] Rajgopal, J. and Bricker, D.L., *Posynomial geometric programming as a special case of semi-infinite linear programming.*, J. Optimization Theory Appl., 66, 3, 455-475, (1990).

[583] Rapoport, Eh.O., *Ueber lineare Aufgaben der Theorie der optimalen Prozesse*, (Russian) Mat. Programm., 106-111, (1966).

[584] Rapoport, E.Ya., *Alternance properties of optimal solutions and computational algorithms in problems of semi-infinite optimization of controlled systems.*, J. Comput. Syst. Sci. Int., 35,4, 581-591, (1996).

[585] Rätsch, G., A. Demiriz, K.P. Bennet, *Sparse regression ensembles in infinite and finite hypothesis spaces*, *Machine Learning* 48, 189-218, (2002).

[586] Reemtsen, R., *Discretization methods for the solution of semi-infinite programming problems.*, J. Optimization Theory Appl., 71, 1, 85-103, (1991)

[587] Reemtsen, Rembert, *A cutting plane method for solving minimax problems in the complex plane.*, Numer. Algorithms 2, No.3/4, 409-436, (1992).

[588] Reemtsen, Rembert, Some outer approximation methods for semi-infinite optimization problems., J. Comput. Appl. Math., 53, 1, 87-108, (1994).

[589] Reemtsen, Rembert M. and Potchinkov, Alexander W., *FIR filter design in regard to frequency response, magnitude, and phase by semi-infinite programming.*, in Guddat, Juergen (ed.) et al., Parametric optimization and related topics IV, Bern: Peter Lang. Approximation Optimization. 9, 299-314, (1997).

[590] Reemtsen, R.M. and Görner, S., *Numerical methods for semi-infinite programming: A survey*, in Semi-Infinite Programming, R.M. Reemtsen and J. Rckmann (eds.), 195-275, Kluwer Nonconvex Optim. Appl. 25, (1998).

[591] Reemtsen R., Rückmann J.-J. (eds.) Semi-Infinite Programming, Kluwer, Boston, (1998).

[592] A.P. Robertson and W.J. Robertson, Topological Vector Spaces, Cambridge University Press, Cambridge, (1973).

[593] S.M. Robinson, *Stability theory for systems of inequalities. Part I: Linear systems*, SIAM Journal on Numerical Analysis, 12, 754-769, (1975).

[594] S.M. Robinson, *A Characterization of Stability in Linear Programming*, Operations Research, 25, 435-447, (1977).

[595] R.T. Rockafellar, Convex Analysis, Princeton University Press, Princeton New Jersey, (1970).

[596] R.T. Rockafellar and R.J-B. Wets, Variational Analysis, Springer Verlag, New-York, (1998).

[597] Roleff, Klaus, *A stable multiple exchange algorithm for linear SIP.*, in Semi-infinite programming, Proc. Workshop Bad Honnef 1978, Lect. Notes Control Inf. Sci. 15, 83-96, (1979).

[598] Romeijn, H.Edwin and Smith, Robert L. and Bean, James C., *Duality in infinite dimensional linear programming.*, Math. Program., Ser. A, 53, 1, 79-97, (1992).

[599] J.B. Rosen, *Pattern separation by convex programming*, Journal of Mathematical Analysis and Applications, 10, 123-134, (1965).

[600] Royset, J. O.; Polak, E.; Der Kiureghian, A., *Adaptive approximations and exact penalization for the solution of generalized semi-infinite min-max problems*, SIAM J. Optim. 14, no. 1, 1–33, (2003).

[601] Rubinshtejn, G.Sh., *Kommentar zu der Arbeit von H. Voigt: "Ein Dualitaetssatz der semi-infiniten linearen Optimierung".*, (Russian) Math. Operationsforsch. Stat., Ser. Optimization, 12, 31-32, (1981).

[602] Rubio, J.E., *The optimal control of nonlinear diffusion equations with rough initial data*, J. Franklin Inst. 337, 673-690, (2000).

[603] Rubio, J.E., *Optimal control problems with unbounded constraint sets*, Optimization 48, 191-210, (2000).

[604] Rudolph, H., *Zur Approximation infiniter linearer Optimalprobleme.*, Z. Angew. Math. Mech., 59, 486-487, (1979).

[605] Rudolph, H., *Basisloesungen und Extremalpunkte in der semiinfiniten linearen Optimierung.*, Seminarber., Humboldt-Univ. Berlin, Sekt. Math. 39, 176-184 (1981).

[606] Rudolph, Helmut, *Der Simplexalgorithmus der semi-infiniten linearen Optimierung. (The simplex algorithm of semi-infinite linear optimization).*, Wiss. Z. Tech. Hochsch. Leuna-Merseburg 29(1987), No.6, 782-806, (1987).

[607] Rudolph, Helmut, *Naeherungsloesungen fuer eine Klasse von Steuerproblemen mit gemischten Restriktionen. (Approximate solutions for a class of control problems with mixed constraints).*, Wiss. Z., Karl-Marx-Univ. Leipz., Math.-Naturwiss. Reihe 37, No.4, 318-325, (1988).

[608] Rudolph, Helmut, *Global solutions in optimal control via silp.*, in System modelling and optimization, Proc. 14th IFIP Conf., Leipzig/GDR 1989, Lect. Notes Control Inf. Sci. 143, 394-402, (1990).

[609] Rudolph, H., *The SILP-relaxation method in optimal control. I: General boundary conditions.*, Z. Anal. Anwend., 11, 1, 143-151, (1992).

[610] Rudolph, H., *The SILP-relaxation method in optimal control: General boundary conditions. II.*, Z. Anal. Anwend., 11, 3, 431-436, (1992).

[611] Rueckmann, Jan-J., *Topological stability of feasible sets in semi-infinite optimization: A tutorial.*, in Fiacco, Anthony (ed.), Mathematical programming with data perturbations. 17th symposium, George Washington University, Washington, DC, USA, May 1995. New York, NY: Marcel Dekker. Lect. Notes Pure Appl. Math. 195, 339-361, (1997).

[612] Rueckmann, Jan-J, *On existence and uniqueness of stationary points in semi-infinite optimization.*, Math. Program. 86A, No.2, 387-415, (1999).

[613] Rueckmann, J.J. and Shapiro, A., *First-order optimality conditions in generalized semi-infinite programming.*, J. Optimization Theory Appl., 101, 3, 677-691, (1999).

[614] Rueckmann, J.J. and Shapiro, A., *Second-order optimality conditions in generalized semi-infinite programming.*, Set-Valued Analysis, 9, 191-186, (2001).

[615] Rückmann, J.-J., and O. Stein, *On linear and linearized generalized semi-infinite optimization problems*, Ann. Oper. Res. 101, 191-208, (2001).

[616] Rückmann, J.-J., and O. Stein, *On convex lower level problems in generalized semiinfinite optimization*, in Goberna, M.A. and López, M.A. (Eds.), Semi-Infinite Programming. Recent Advances, Kluwer Verlag, 121-134, (2001).

[617] Rückmann, J.-J. and Weber, G.-W., *Semi-infinite optimization: Excisional stability of noncompact feasible sets*, Siberian Mathematical Journal, 39, 113-125, (1998).

[618] Rupp, Thomas, *Kontinuitaetsmethoden zur Loesung einparametrischer semi-infiniter Optimierungsprobleme. (Continuity methods for the solution of one- parametric semi-infinite optimization problems).*, (German) Trier: Univ. Trier, Dissertation, 167 S. (1988).

[619] Rupp Th., *Kuhn-Tucker curves for one-parametric semi-infinite programming*, Optimization 20, 61-77, (1989).

[620] A. Sabharwal and D. Avidor and L. Potter, *Sector Beam Synthesis for Cellular Systems Using Phased Antenna Arrays*, IEEE Transactions on Vehicular Technology, 49, 1784-1792, (2000).

[621] Sachs, Ekkehard W., *Semi-infinite programming in control.*, in Reemtsen, Rembert (ed.) et al., Semi-infinite programming. Workshop, Cottbus, Germany, September 1996. Boston: Kluwer Academic Publishers. Nonconvex Optim. Appl. 25, 389-411, (1998).

[622] Sánchez-Soriano J., Llorca N., Tijs S., Timmer J., *Semi-infinite assignment and transportation games.* in Semi-infinite programming, Eds. Goberna/López, (Alicante, 1999), 349–363, Nonconvex Optim. Appl., 57, Kluwer Acad. Publ., Dordrecht, (2001).

[623] Sarges, Olaf, *Redundance of vertices of the cube relatively to its minimal ellipsoid.*, Beitr. Algebra Geom., 37, 1, 41-49, (1996)

[624] Schaefer, Klaus, *Semi-infinite linear optimization on noncompact spaces and its application to approximation theory.*, in Numer. Funct. Anal. Optimization 10, No.5/6, 557-572, (1989).

[625] Schaettler, Ulrich, *An interior-point-method for semi-infinite programming problems.*, Wuerzburg: Universitaet Wuerzburg, FB Mathematik, 44 p. (1992).

[626] Schaettler, Ulrich, *An interior-point method for semi-infinite programming problems.*, Ann. Oper. Res., 62, 277-301, (1996).

[627] Schittkowski, K., *Solving nonlinear programming problems with very many constraints.*, Optimization, 25, 2-3, 179-196, (1992).

[628] Schochetman, I.E., *Pointwise versions of the maximum theorem with applications in optimization*, Applied Mathematics Letters, 3, 89-92, (1990).

[629] Schochetman, I.E. and Smith, R.L., *Convergence of selections with applications in optimization.*, J. Math. Anal. Appl., 155, 1, 278-292, (1991).

[630] Scott, C.H. and Jefferson, T.R., *Duality in infinite-dimensional mathematical programming: Convex integral functionals.*, J. Math. Anal. Appl., 61, 251-261, (1977).

[631] Scott, C.H. and Jefferson, T.R., *Non-standard posynomial geometric programs.*, Int. J. Syst. Sci., 18, 1467-1474, (1987).

[632] Shapiro, Alexander, *Extremal problems on the set of nonnegative definite matrices.*, Linear Algebra Appl., 67, 7-18, (1985).

[633] Shapiro A., *Second order derivatives of extremal value functions and optimality conditions for semi-infinite programs*, Math. of Oper. Res. 10, 207-219, (1985).

[634] Shapiro, Alexander, *On Lipschitzian stability of optimal solutions of parametrized semi-infinite programs.*, Math. Oper. Res., 19, 3, 743-752, (1994).

[635] Shapiro, Alexander, *Sensitivity analysis of parametrized programs via generalized equations.*, SIAM J. Control Optimization, 32, 2, 553-571, (1994).

[636] Shapiro, Alexander, *Directional differentiability of the optimal value function in convex semi-infinite programming.*, Math. Program. 70A, No.2, 149-157, (1995).

[637] Shapiro, Alexander, *On uniqueness of Lagrange multipliers in optimization problems subject to cone constraints.*, SIAM J. Optim., 7, 2, 508-518, (1997).

[638] Shapiro, Alexander, *First and second order optimality conditions and perturbation analysis of semi-infinite programming problems.*, in Reemtsen, Rembert (ed.) et al., Semi-infinite programming. Workshop, Cottbus, Germany, September 1996. Boston: Kluwer Academic Publishers. Nonconvex Optim. Appl. 25, 103-133, (1998).

[639] Shapiro, Alexander and Fan, Michael K.H., *On eigenvalue optimization.*, SIAM J. Optim., 5, 3, 552-569, (1995).

[640] Shapiro, A., On duality theory of conic linear problems, in [223], 135-165, (2001).

[641] Shapiro, A., *On duality theory of convex semi-infinite programming*, Tech. Report, School of Industrial and Systems Engineering, Georgia Institute of Technology, Atlanta, GE (2004).

[642] Shaw, F.H. and Geyer, C.J., *Estimation and testing in constrained covariance component models*, Biometrika, 84, 95-102, (1997).

[643] Sheu, Ruey-Lin and Wu, Soon-Yi, *A primal-dual approach for quadratic semi-infinite programming.*, in Fong, Yuen (ed.) et al., Proceedings of the international mathematics conference '94, Kaohsiung, Taiwan, Province of China, December 2-5, 1994. Singapore: World Scientific Publishing. 179-188, (1996).

[644] Sheu, R.-L. and Wu, S.-Y. and Fang, S.-C., *A primal-dual infeasible-interior-point algorithm for linear semi- infinite programming.*, Comput. Math. Appl., 29, 8, 7-18, (1995).

[645] Shi, Guangyan and Ma, Xiaoxian, *An outer approximation algorithm for semi-infinite nondifferentiable programmings.*, Appl. Math., J. Chin. Univ., 7, 1, 1-9, (1992).

[646] Shibaev, S.V., *Maxmin subject to marginal constraints.*, Cybern. Syst. Anal., 30, 6, 875-884, (1994).

[647] Slupphaug, O., L. Imsland, and A. Foss, *Uncertainty modelling and robust output feedback control of nonlinear discrete systems: A mathematical programming approach*, Int. J. Robust Nonlinear Control 10, 1129-1152, (2000).

[648] Sommer, Rolf, *Finite-Element-Approximation und semi-infinite Optimierungsaufgaben.*, Seminarber., Humboldt-Univ. Berlin, Sekt. Math. 39, 210-224 (1981).

[649] Sommer, Rolf, *Numerische Behandlung semi-infiniter Optimierungsaufgaben bei der approximativen Loesung elliptischer Randwertaufgaben.*, Wiss. Z. Tech. Hochsch. Karl-Marx-Stadt 23, 471-478, (1981).

[650] Sonnevend, G., *Applications of analytic centers for the numerical solution of semiinfinite, convex programs arising in control theory.*, in System modelling and optimization, Proc. 14th IFIP Conf., Leipzig/GDR 1989, Lect. Notes Control Inf. Sci. 143, 413-422, (1990).

[651] Sonnevend, Gyoergy, *A new class of a high order interior point method for the solution of convex semiinfinite optimization problems.*, in Bulirsch, R. (ed.) et al., Computational optimal control., Basel: Birkhaeuser. ISNM, Int. Ser. Numer. Math. 115, 193-211, (1994).

[652] Soyster A.L., *Convex programming with set-inclusive constraints and applications to inexact linear programming*, Operations research 21, 1154-1157, (1973).

[653] Soyster A.L., *A semi-infinite game*, Management Science, 21, 806-812, (1975).

[654] Staffans, O.J., *Mixed sensitivity minimization problems with rational ℓ^1-optimal solutions.*, J. Optimization Theory Appl., 70, 1, 173-189, (1991).

[655] Stein, Oliver, *Trap-doors in the solution set of semi-infinite optimization problems.*, in Gritzmann, Peter (ed.) et al., Recent advances in optimization, Berlin: Springer. Lect. Notes Econ. Math. Syst. 452, 348-355, (1997).

[656] Stein O., On parametric semi-infinite Optimization, Thesis, University Aachen, Shaker, (1997).

[657] Stein O., *The Reduction Ansatz in absence of lower semi-continuity*, in Guddat et al. (eds.), Parametric Optimization and related Topics V, Peter Lang, Frankfurt a.M., 165-178, (2000).

[658] Stein O., *On level sets of marginal functions*, Optimization, 48, 43-67, (2000).

[659] Stein O., *The feasible set in generalized semi-infinite programming*, in Lassonde M. (ed.), Approximation, Optimization and Mathematical Economics, Springer, 313-331, (2001).

[660] Stein O., *First order optimality conditions for degenerate index sets in generalized semi-infinite programming*, Mathematics of Operations Research, 26, 565-582, (2001).

[661] Stein O., Bilevel strategies in Semi-infinite Programming, Kluwer, Boston (2003).

[662] Stein O., Still G., *On optimality conditions for generalized semi-infinite programming problems*, Journal of Optimization Theory and Applications, Vol. 104, 443-458, (2000).

[663] Stein O., Still G., *On generalized semi-infinite optimization and bilevel optimization*, Europ. J. of Operational Research 142, Issue 3, 444-462, (2002).

[664] Stein O., Still G., *Solving semi-infinite optimization problems with interior point techniques.* SIAM J. Control Optim. 42, no. 3, 769–788, (2003).

[665] Still G., *Computable bounds for eigenvalues and eigenfunctions of elliptic differential operators*, Numer. Math. 54, 201-223, (1988).

[666] Still G., *Generalized semi-infinite programming: Theory and methods*, European Journal of Operational Research 119, 301-313, (1999).

[667] Still G., *Generalized semi-infinite programming: Numerical aspects*, Optimization 49, No. 3, 223-242, (2001).

[668] Still G., *Discretization in semi-infinite programming: the rate of convergence*, Math. Program. 91, 1, Ser. A, 53–69, (2001).

[669] Still G., *Optimization problems with infinitely many constraints*, Bul. Stiint. Univ. Baia Mare, Ser. B, Matematica-Informatica, Vol. XViii, Nr.2, 343-354, (2003).

[670] Still G., *Approximation theory methods for solving elliptic eigenvalue problems*, Z. Angew. Math. Mech. 83, No. 7, 468-478, (2003).

[671] Still G., *Solving generalized semi-infinite programs by reduction to simpler problems.* Optimization 53, no. 1, 19–38, (2004).

[672] Still G., *Approximation and Optimization: Classical results and new developments*, Proceedings PARAOPT VII (Puebla 2002), Aportationes Matematicas 18. 207-233, (2004).

[673] Still G., Haaren-Retagne E., Hettich R., *A numerical comparison of two approaches to compute membrane eigenvalues by defect-minimization*, in "Intern. Series of Numer. Math." vol 96, Birkhäuser Verlag, 209-224, (1991).

[674] Strauss H., *On semi-infinite optimization and Chebyshev approximation with constraints*, Numer. Funct. Anal. Optimiz. 8, 153-171, (1985).

[675] Streit, Roy L., *An algorithm for the solution of systems of complex linear equations in the $\mathcal{L}_\infty$ norm with constraints on the unknowns.*, ACM Trans. Math. Softw., 11, 242-249, (1985).

[676] Streit, Roy L., *Solution of systems of complex linear equations in the ℓ_∞ norm with constraints on the unknowns.*, SIAM J. Sci. Stat. Comput., 7, 132-149, (1986).

[677] Streit, Roy L. and Nuttall, Albert H., *A note on the semi-infinite programming approach to complex approximation.*, Math. Comput., 40, 599-605, (1983).

[678] Sturm N., *semi-infinite Optimierung: Lösungsvorschlag mittels der Momentenmethode von Markov*, Schwarzenbek, (1978).

[679] Tanaka, Yoshihiro, *Extensions of trust region methods to semi-infinite programming.*", (Japanese) RIMS Kokyuroku, 945, 35-45, (1996).

[680] Tanaka, Yoshihiro and Fukushima, Masao and Hasegawa, Toshiharu, *Implementable L_∞ penalty-function method for semi-infinite optimization.*, Int. J. Syst. Sci., 18, 1563-1568, (1987).

[681] Tanaka, Yoshihiro and Fukushima, Masao and Ibaraki, Toshihide, *A comparative study of several semi-infinite nonlinear programming algorithms.*, Eur. J. Oper. Res., 36, 1, 92-100, (1988).

[682] Tanaka, Y. and Fukushima, M. and Ibaraki, T., *A globally convergent SQP method for semi-infinite nonlinear optimization.*, J. Comput. Appl. Math., 23,2, 141-153, (1988).

[683] Tarasova, T.A., *On an iterative method for solving the problem of convex programming with an infinite system of restrictions.*, (Russian) Issled. Sovrem. Mat. Anal., Mat. Zap., 10, 2, 142-151, (1977).

[684] Teo, K.L., *A unified computational approach to optimal control problems.*, in Lakshmikantham, V. (ed.), World congress of nonlinear analysts '92. Proceedings of the first world congress, Tampa, FL, USA, August 19-26, 1992. 4 volumes. Berlin: de Gruyter. 2763-2774, (1996).

[685] Tichatschke, R., *Semi-infinite programming problems.*, Mathematical control theory, Banach Cent. Publ. 14, 543-554, (1985).

[686] Tichatschke, Rainer, *Semi-infinite Optimierung - eine Uebersicht ueber Theorie, Loesungsverfahren und Anwendungen.*, (German) Mitteil. Math. Ges. DDR, 4, 20-34, (1986).

[687] Tichatschke, R. and Hettich, R. and Still, G., *About certain classes of inexact linear programming problems and their connections to semi-infinite programs.*, Wiss. Z., Paedagog. Hochsch. "Liselotte Herrmann" Guestrow, Math.- Naturwiss. Fak. 26, No.1, 5-19, (1988).

[688] Tichatschke R., Hettich R., Still G., *Connections between generalized inexact and semi-infinite linear programming*, ZOR-Methods and Models of OR 33, 367-382, (1989).

[689] Tichatschke, R. and Kaplan, A. and Voetman, T. and Bhm, M., *Numerical solution of control problems under uncertainty and perturbation of input data with applications in finanace*, Techn. Report, Universitt Trier, Mathematik/Informatik, Forschungsbericht Nr.00-05, (2000).

[690] Tichatschke, Rainer and Lohse, Thomas, *Eine verallgemeinerte Schnittmethode fuer konvexe semi-infinite Optimierungsaufgaben.*, Wiss. Z. Tech. Hochsch. Karl-Marx-Stadt 24, 332-338, (1982).

[691] Tichatschke, R. and Nebeling, V., *A cutting-plane method for quadratic semi-infinite programming problems.*, Optimization, 19, 6, 803-817, (1988).

[692] Tichatschke, R. and Schwartz, B., *Ein Verfahren der zulaessigen Richtungen fuer das lineare kontinuierliche Tschebyscheff-Problem.*, Math. Operationsforsch. Stat., Ser. Optimization, 13, 501-509, (1982),

[693] Tichatschke, R. and Schwartz, B., *Methods of feasible directions for semi-infinite programming problems. I, II.*, Wiss. Inf. 33, 36 p. (1982).

[694] Tichatschke, R. and Schwartz, B., *A method for solving convex semi-infinite programming problems*, Part I, Optimisacija, 43, 62-73, and Part II, Optimisacija, 44, 64-81, (1988).

[695] Tijs S.H., *Semi-infinite linear programs and semi-infinite matrixgames*, Nieuw Arch. Wiskunde, 27, 197-214, (1979).

[696] Tijs, S. and Timmer, J. and Llorca, N. and Sánchez-Soriano, J., *The Owen Set and the Core of Semi-Infinite Linear Production Sitiuations*, in Semi-Infinite Programming. Recent Advances, Eds. Goberna, M.A. and López, M.A., Kluwer Verlag, (2001).

[697] Todd, Michael J., *Interior-point algorithms for semi-infinite programming.*, Math. Program. 65A, No.2, 217-245, (1994).

[698] Todorov, M. I., *Generic existence and uniqueness of the solution to linear semi-infinite optimization problems*, Numerical Functional Analysis and Optimization, 8, 541-556, (1985/86).

[699] Todorov, M.I., *Generic uniqueness of saddle points in the linear semi-infinite optimization.*, C. R. Acad. Bulg. Sci., 39, 4, 27-29, (1986).

[700] Todorov, M.I., *Generic properties in the linear vector semi-infinite optimization.*, C. R. Acad. Bulg. Sci., 42, 4, 27-29, (1989).

[701] Todorov, M.I., *Properties resembling well-posedness in the linear vector semi-infinite optimization.*, C. R. Acad. Bulg. Sci., 42, 9, 23-25, (1989).

[702] Todorov, Maxim Iv., *Existence of solutions of linear vector semi-infinite optimization problems.*, Math. Balk., New Ser., 4, 4, 390-395, (1990).

[703] Todorov, Maxim I., *Generic uniqueness and well-posedness in linear vector semi-infinite optimization.*, Mathematics and education in mathematics, Proc. 19th Spring Conf., Sunny Beach/Bulg. 1990, 413-418, (1990).

[704] Todorov, Maxim Ivanov, *Well-posedness in the linear vector semi-infinite optimization.*, in Tzeng, G. H. (ed.) et al., Multiple criteria decision making. Proceedings of the 10th international conference: Expand and enrich the domains of thinking and application, held at Taipei, Taiwan, July 19-24, 1992. New York: Springer-Verlag. 141-150, (1994).

[705] Todorov, Maxim I., *Necessary and sufficient conditons for global lower semicontinuity in linear semi-infinite optimization.*, Numer. Funct. Anal. Optimization, 19, 3-4, 415-429, (1998).

[706] Trahan R., Polak E., *A derivative free algorithm for a class of infinitely constrained problems*, IEEE Trans. Automat. Control, AC-25, 554-61, (1980).

[707] Trofimov, S.P., *On the equivalence of approximations with respect to constraints and with respect to right-hand sides of semi-infinite linear problems.*, (Russian) in Chernikov, N. S. (ed.), Infinite groups and related algebraic structures. Kiev: Institut Matematiki AN Ukrainy, 527-537 (1993).

[708] Trudzik, L.I., *On optimality in abstract convex programming.*, Z. Oper. Res., Ser. A, 27, 1-16, (1983).

[709] Trudzik, Leslie Ian, *Optimization in abstract spaces.*, Bull. Aust. Math. Soc., 29, 141-143, (1984).

[710] Tsao, H.-S.Jacob and Fang, Shu-Cherng, *Linear programming with inequality constraints via entropic perturbation.*, Int. J. Math. Math. Sci., 19, 1, 177-184, (1996).

[711] Tunel, Levent and Todd, Michael J., *Asymptotic behavior of interior-point methods: A view from semi-infinite programming.*, Math. Oper. Res., 21, 2, 354-381, (1996).

[712] H. Tuy, *Stability property of a system of inequalities*, Mathematische Operationsforschung und Statistik, Series Optimization, 8, 27-39, (1977).

[713] Ugowski, Henryk, *Remarks on the ascent algorithm for the linear minimax problem.*, COMPEL, 8, 3, 181-184, (1989).

[714] Valentine, F.A., *Visible shorelines*, American Mathematical Monthly, 77, 146-152, (1970).

[715] Van Honstede, W., *An approximation method for semi-infinite problems.*, in Semi-infinite programming, Proc. Workshop Bad Honnef 1978, Lect. Notes Control Inf. Sci. 15, 126-136, (1979).

[716] Vandenberghe, L., and S. Boyd, *Connections between semi-infinite and semidefinite programming*, in R. Reemtsen and J. Rückmann (eds.), Semi-Infinite Programming, Kluwer, Dordrecht, 277-294, (1998).

[717] Vanderbei, Robert J., *Affine-scaling trajectories associated with a semi-infinite linear program.*, Math. Oper. Res., 20, 1, 163-174, (1995).

[718] Vaz, I. , E. Fernandes and P. Gomes, *A quasi-Newton interior point method for semi-infinite programming*, Optimization Meth. and Software, 18, 6, 673-687, (2003).

[719] Vaz, I. , E. Fernandes and P. Gomes, *A sequential quadratic programming with a dual parametrization approach to nonlinear semi-infinite programming*, Top 11, 109-130, (2003).

[720] Venkov, G.I. and Krushev, N.I., *Nondifferentiable design optimization problems with application to control engineering.*, Optimization, 25, 1, 83-90, (1992).

[721] Voigt, H, em Ein Dualitaetssatz der semi-infiniten linearen Optimierung.", Math. Operationsforsch. Stat., Ser. Optimization, 12, 27-30, (1981).

[722] Voigt, H., *Semi-infinite transportation problems*, Zeitschrift fr Analysis und ihre Anwendungen, 17, 729-741, (1998).

[723] Volkov, Y.V. and Zavriev, S.K., *A general stochastic outer approximations method*, SIAM J. Control Optimization, 35, 4, 1387-1421, (1997).

[724] M. Volle, *Sous-différentiel d'une enveloppe supérieure de fonctions convexes*, C. R. Acad. Sci. Paris, "t. 317", I, 845-849, (1993).

[725] Wang, Dingwei and Fang, S.-C., *A semi-infinite programming model for earliness/tardiness production planning with a genetic algorithm.*, Comput. Math. Appl., 31, 8, 95-106, (1996).

[726] Wang, M. and Kuo, Y.-E., *A perturbation method for solving linear semi-infinite programming problem*, Computers and Mathematics with Applications, 37, 181-198, (1999).

[727] Wardi, Y., *A stochastic algorithm for finding points satisfying infinitely many inequality constraints.*, in Analysis and optimization of systems, Proc. 7th Int. Conf., Antibes/France 1986, Lect. Notes Control Inf. Sci. 83, 17-28, (1986).

[728] Watson, G.A., *Globally convergent methods for semi-infinite programming.*, BIT, 21, 362-373, (1981).

[729] Watson, G.A., *Numerical experiments with globally convergent methods for semi-infinite programming problems.*, in Semi-infinite programming and applications, int. Symp., Austin/Tex. 1981, Lect. Notes Econ. Math. Syst. 215, 193-205, (1983).

[730] Watson, G.A., *Lagrangian methods for semi-infinite programming problems.*, in Infinite programming, Proc. Int. Symp., Cambridge/U.K. 1984, Lect. Notes Econ. Math. Syst. 259, 90-107, (1985).

[731] Weber, Gerhard-Wilhelm, *Charakterisierung struktureller Stabilitaet in der nichtlinearen Optimierung. (Characterization of structural stability in nonlinear optimization).*, Thesis, Aachener Beitraege zur Mathematik. 5. Aachen: Verlag der Augustinus- Buchhandlung. xviii, 181 p. (1992).

[732] Weber, G.-W., *Generalized Semi-Infinite Optimization and Related Topics*, Heldermann Verlag, Lemgo, Germany, 2003.

[733] Weber, G.-W., *Generalized semi-infinite optimization: On some foundations.*, Vychisl. Tekhnol., 4, 3, 41-61, (1999).

[734] Weber, Reinhard, Entscheidungsprobleme bei Unsicherheit und mehrfacher Zielsetzung. Ein Ansatz mit Hilfe der semi-infiniten linearen Vektoroptimierung., Mathematical Systems in Economics, 80, 172 S., (1982).

[735] Weber, Reinhard, *Decision making under uncertainty: A semi-infinite programming approach.*, Eur. J. Oper. Res., 19, 104-113, (1985).

[736] Weyl, H., *Elementare theorie der konvexen polyeder*, Commentarii Mathematici Helvetici, 7, 290-306, (1935).

[737] Weinberger, H.F., *Genetic wave propagation, convex sets, and semiinfinite programming.*, in Constructive approaches to mathematical models, Proc. Conf. in Honor of R. J. Duffin, Pittsburgh/Pa. 1978, 293-317, (1979).

[738] Wetterling W., *Anwendung des Newtonschen Iterationsverfahrens bei der Tschebyscheff-Approximation, insbesondere mit nichlinear auftretenden parametern*, MTW Teil I: 61-63; Teil II: 112-115, (1963).

[739] Wetterling W., *Definitheitsbedingungen für relative Extrema bei Optimierungs- und Approximationsaufgaben*, Numer. Math. 15, 122-136, (1970).

[740] A.C. Williams, *Marginal Values in Linear Programming*, SIAM Journal on Applied Mathematics, 11, 82-94, (1963).

[741] Wolkowicz H., Saigal L., Vandenberghe (Eds.), Handbook of semidefinite programming. Theory, algorithms, and applications. International Series in Operations Research and Management Science, 27. Kluwer Academic Publishers, Boston, (2000).

[742] Wu, S.Y., *The general capacity problem.*, Methods Oper. Res., 49, 329-344, (1985).

[743] Wu, S.-Y. and Fang, S.-C., *Solving convex programs with infinitely many linear constraints by a relaxed cutting plane method*, *Computers and Mathematics with Applications*, 38, 23-33, (1999).

[744] Wu, S.Y. and Fang, S.C. and Lin, C.J., Relaxed cutting plane method for solving linear semi-infinite programming problems., J. Optimization Theory Appl., 99, 3, 759-779, (1998).

[745] Wu, S.Y. and Fang, S.C. and Lin, C.J., *Analytic Center Based Cutting Plane Method for Linear Semi-infinite Programming*, in Semi-Infinite Programming. Recent Advances, Eds. Goberna, M.A. and López, M.A., Kluwer Verlag, (2001).

[746] Yamasaki, Maretsugu, *Semi-infinite programs and conditional Gauss variuational problems*, Hiroshima Mat. J. 1, 177-226, (1972).

[747] Yamasaki, Maretsugu, *Existence theorems in semi-infinite programs.* in Semi-infinite programming and applications, int. Symp., Austin/Tex. 1981, Lect. Notes Econ. Math. Syst. 215, 94-106, (1983).

[748] Yang, Hong-li; He, Guo-ping, *A new ACCPM algorithm for convex semi-infinite programming*, Math. Econ. 21, 3, 252–257, (2004).

[749] Yang, Xiaoqi, *Second-order conditions in $C^{1,1}$ optimization with applications.*, Numer. Funct. Anal. Optimization, 14, 5-6, 621-632, (1993).

[750] Yasuda, Masami (ed.), Mathematical programming and its related fields. Proceedings of a symposium held at the Research Institute for Mathematical Sciences, Kyoto University, Kyoto, December 8-10, 1988., RIMS Kokyuroku. No.680. Kyoto: Kyoto Univ., Research Inst. for Mathematical Sciences, iii, 294 p. (1989).

[751] Zaboeva, O.A. and Timokhin, S.G. and Shapkin, A.V., *The search for optimal guaranteed solutions of high-dimensionality problems of semi-infinite programming.*, U.S.S.R. Comput. Math. Math. Phys., 25, 1, 29-33, (1985).

[752] Zakovic, S., and B. Rustem, *Semi-infinite programming and applications to minimax problems*, Ann. Oper. Res. 124, 81-110, (2003).

[753] Zaković, Stanislav; Rustem, Berc, *Semi-infinite programming and applications to minimax problems. Applied mathematical programming and modelling*, Ann. Oper. Res. 124, 81–110, (2003).

[754] Zalinescu, C., *A note on d-stability of convex programs and limiting Lagrangians.*, Math. Program., Ser. A, 53, 3, 267-277, (1992).

[755] Zalmai, G.J., *Optimality conditions and subgradient duality for minimax programming problems with applications.*, Util. Math., 34, 193-222, (1988).

[756] Zavadskij, V.K., Multilevel iterative schemes of numerical optimization., Autom. Remote Control 55, No.10, Pt. 1, 1400-1404 (1994); translation from Avtom. Telemekh. 1994, No.10, 11-16, (1994).

[757] Zavriev, S.K., N.M. Novikova, and A.V. Fedosova, *Stochastic algorithm for solving convex semi-infinite programming problems with equality and inequality constraints*, (Russian, English), Mosc. Univ. Comput. Math. Cybern., 44-52, (2000).

[758] Zencke, P. and Hettich, R., *Directional derivatives for the value-function in semi-infinite programming.*, Math. Program., 38, 323-340, (1987).

[759] Zhang, Qing-Xiang, *Sufficient conditions for optimality of a class of semi-infinite programming in the sense of* (h, ϕ)., (Chinese) J. Syst. Sci. Math. Sci., 11, 4, 367-370, (1991).

[760] Zhang, Qingxiang, *Sufficiency of solutions for* ρ*-convex semi-infinite programming problems with parameter constraints.*, (Chinese) J. Eng. Math., Xi'an 11, No.4, 99-101, (1994).

[761] Zhang, Qingxiang, *Optimality conditions and duality for arcwise semi-finite programming with parametric inequality constraints.*, J. Math. Anal. Appl., 196, 3, 998-1007, (1995).

[762] Zhang, Qingxiang, *On the sufficiency of weak nondominated solutions for nonsmooth multiobjective semi-infinite programming.*, (Chinese. English summary) Appl. Math., Ser. A (Chin. Ed.), 11, 4, 461-466, (1996).

[763] Zhang, Qing-xiang, *Optimality and duality for* B_s*-invex semi-infinite programming problem*, Qufu Shifan Daxue Xuebao Ziran Kexue Ban, 30, 2, 9–14, (2004).

[764] Zhou, Guanglu and Wang, Changyu, *The existence theorems for the dual nonconvex mathematical programming problems in Banach space.*, Adv. Math., Beijing, 26, 3, 217-222, (1997).

[765] Zhou, Guanglu and Wang, Changyu and Zhang, Yuzhong, An efficient method for semi-infinite programming., (Chinese. English summary) Math. Numer. Sin., 21, 1, 1-8, (1999).

[766] Zhou, Jian L. and Tits, Andre L., *An SQP algorithm for finely discretized continuous minimax problems and other minimax problems with many objective functions.*, SIAM J. Optim., 6, 2, 461-487, (1996).

[767] Zhu, Baoliang, *Semi-infinite quadratic programming.*, (Chinese. English summary) J. East China Norm. Univ., Nat. Sci. Ed., 4, 39-45, (1987).

[768] Y.J. Zhu, *Generalizations of some fundamental theorems on linear inequalities*, Acta Mathematica Sinica, 16, 25-40, (1966).

[769] Zlobec, S., *Stability in linear programming models: An index set approach*, Annals of Operations Research, 101, 363-382, (2001).

[770] Zwick, D., *A special one-sided approximation problem.*, J. Approximation Theory, 62, 1, 70-93, (1990).

[771] Zwier G., *Structural analysis in semi-infinite programming*, Thesis, University of Twente, (1987).

Publications on Generalized Semi-infinite Programming:

References

[1] Achziger W., *Optimization with variable sets of constraints and an application in truss design*, Comput. Optimiz. and Applic., 15, 69-96, (2000).

[2] Dambrine M., Pierre M., *About stability of equilibrium shapes*, Marhem. Modelling and Num. Analysis, 34, 4, 811-834, (2000).

[3] Geletu, Abebe; Hoffmann, Armin, *A conceptual method for solving generalized semi-infinite programming problems via global optimization by exact discontinuous penalization*, European J. Oper. Res., 157, 1, 3–15, (2004).

[4] Hettich R., Still G., *On Generalized semi-infinite programming problems*, Working paper, University of Trier, (1986).

[5] R. Hettich, G. Still, *Second order optimality conditions for generalized semi-infinite programming problems*, Optimization, 34, 195-211, (1995).

[6] Hoffmann A. and Reinhardt R., *On reverse Chebyshev approximation problems*, Technical University of Illmenau, Preprint No. M08/94, (1994).

[7] H. Th Jongen, J.-J. Rückmann, O. Stein, *Disjunctive optimization: critical point theory*, J. Optim. Theory Appl. 93, 2, 321-336 (1997).

[8] H. Th Jongen, J.-J. Rückmann, O. Stein, *Generalized semi-infinite optimization: A first order optimality condition and examples*, Mathematical Programming 83, 145-158, (1998).

[9] Levitin, Evgeny S., *Reduction of generalized semi-infinite programing problems ro semi-infinite or piece-wise smooth programming problems*, Preprint, 8-2001, University of Trier, (2001).

[10] Levitin E. and Tichatschke R., *A branch and bound approach for solving a class of generalized semi-infinite programming problems*, J. of Global Optimization 13, 299-315, (1998).

[11] Levitin, E. and Tichatschke, R., *On smoothing of parametric minimax-functions and generalized max-functions via regularization.*, J. Convex Anal., 5, 2, 199-220, (1998).

[12] Rückmann J.-J., Shapiro A., On first order optimality conditions in Generalized Semi-infinite Programming, J. Optim. Theory Appl. 101, 3, 677-691, (1999).

[13] Rueckmann, J.J. and Shapiro, A., *Second-order optimality conditions in generalized semi-infinite programming.*, Set-Valued Analysis, 9, 191-186, (2001).

[14] Rückmann, J.-J., and O. Stein, *On linear and linearized generalized semi-infinite optimization problems*, Ann. Oper. Res. 101, 191-208, (2001).

[15] Rückmann, J.-J., and O. Stein, *On convex lower level problems in generalized semi-infinite optimization*, in Goberna, M.A. and López, M.A. (Eds.), Semi-Infinite Programming. Recent Advances, Kluwer Verlag, 121-134, (2001).

[16] Stein O., On parametric semi-infinite Optimization, Thesis, University Aachen, Shaker, (1997).

[17] Stein O., *The Reduction Ansatz in absence of lower semi-continuity*, in Guddat et al. (eds.), Parametric Optimization and related Topics V, Peter Lang, Frankfurt a.M., 165-178, (2000).

[18] Stein O., *On level sets of marginal functions* Optimization, 48, 43-67, (2000).

[19] Stein O., *The feasible set in generalized semi-infinite programming*, in Lassonde M. (ed.), Approximation, Optimization and Mathematical Economics, Springer, 313-331, (2001).

[20] Stein O., *First order optimality conditions for degenerate index sets in generalized semi-infinite programming*, Mathematics of Operations Research, 26, 565-582, (2001).

[21] Stein O., Bilevel strategies in Semi-infinite Programming, Kluwer, Boston (2003).

[22] Stein O., Still G., *On optimality conditions for generalized semi-infinite programming problems*, Journal of Optimization Theory and Applications, Vol. 104, 443-458, (2000).

[23] Stein O., Still G., *On generalized semi-infinite optimization and bilevel optimization*, Europ. J. of Operational Research 142, Issue 3, 444-462, (2002).

[24] Stein O., Still G., *Solving semi-infinite optimization problems with interior point techniques.* SIAM J. Control Optim. 42, no. 3, 769–788, (2003).

[25] Still G., *Generalized semi-infinite programming: Theory and methods*, European Journal of Operational Research 119, 301-313, (1999).

[26] Still G., *Generalized semi-infinite programming: Numerical aspects*, Optimization, 49, 3, 223-242, (2001).

[27] Still G., *Solving generalized semi-infinite programs by reduction to simpler problems.* Optimization, 53, 1, 19–38, (2004).

[28] Still G., *Approximation and Optimization: Classical results and new developments*, Proceedings PARAOPT VII (Puebla 2002), Aportationes Matematicas 18, 207-233, (2004).

[29] Weber, G.-W., *Generalized semi-infinite optimization: On some foundations.*, Vychisl. Tekhnol., 4, 3, 41-61, (1999).

[30] Weber, G.-W., *Generalized Semi-Infinite Optimization and Related Topics*, Heldermann Verlag, Lemgo, Germany, 2003.