

References in Semi-infinite Optimization (collected by)

Marco López (University of Alicante)

Georg Still (University of Twente)

Contents:

page

Books and Proceedings on Semi-infinite Programming	1
Publikations in Semi-infinite Programming	2
Publikations in Generalized Semi-infinite Programming	50

Books, Proceedings and Surveys 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., López 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] Guerra Vzquez, F.; Rückmann, J.-J.; Stein, O.; Still, G., *Generalized semi-infinite programming: a tutorial*. J. Comput. Appl. Math. 217 (2008), no. 2, 394–419.
- [8] 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).
- [9] Hettich R. and Zencke P., Numerische Methoden der Approximation und der semi-infiniten Optimierung, Teubner, Stuttgart (1982).
- [10] Hettich R., Kortanek K., Semi-infinite programming: Theory, methods and applications, SIAM Review, vol 35, N0.3, 380-429, (1993).
- [11] López, Marco; Still, Georg, *Semi-infinite programming*. (Invited paper) European J. Oper. Res. 180 (2007), no. 2, 491–518.
- [12] Reemtsen Rembert, Rückmann Jan (eds.), Semi-infinite programming Workshop, Cottbus, Germany, September 1996. Boston: Kluwer Academic Publishers. Nonconvex Optim. Appl. 25, (1998).
- [13] Stein O., Bilevel strategies in Semi-infinite Programming, Kluwer, Boston (2003).
- [14] 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 [243], 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] Astaf'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 matematicheskem programmirovaniyu).*, (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, Birkhäuser 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) Kibernetika i Vychislitel'naya Tekhnika, 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, Birkhäuser 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, (1995).
- [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] Cánovas, M.J., *Estabilidad de sistemas de desigualdades lineales en un contexto paramétrico*, Miguel Hernández University, thesis, (2000).
- [92] Cánovas, M. J.; Dontchev, A. L.; López, M. A.; Parra, J., *Metric regularity of semi-infinite constraint systems*. Math. Program. 104 (2005), no. 2-3, Ser. B, 329–346.
- [93] Cánovas, M. J.; Dontchev, A. L.; López, M. A.; Parra, J., *Isolated calmness of solution mappings in convex semi-infinite optimization*. J. Math. Anal. Appl. 350 (2009), no. 2, 829–837.
- [94] Cánovas, M. J.; Hantoute, A.; López, M. A.; Parra, J., *Stability of indices in the KKT conditions and metric regularity in convex semi-infinite optimization*. J. Optim. Theory Appl. 139 (2008), no. 3, 485–500.
- [95] Cánovas, Maria J.; Hantoute, Abderrahim; López, Marco A.; Parra, Juan, *Lipschitz behavior of convex semi-infinite optimization problems: a variational approach*. J. Global Optim. 41 (2008), no. 1, 1–13.
- [96] Cánovas, M. J.; Klatte, D.; López, M. A.; Parra, J., *Metric regularity in convex semi-infinite optimization under canonical perturbations*. SIAM J. Optim. 18 (2007), no. 3, 717–732.
- [97] 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).
- [98] 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).
- [99] 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).
- [100] 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).
- [101] 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).
- [102] Cánovas, M. J.; López, M. A.; Parra, J., *On the equivalence of parametric contexts for linear inequality systems*. J. Comput. Appl. Math. 217 (2008), no. 2, 448–456.
- [103] 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).
- [104] 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).
- [105] 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).
- [106] Cánovas, M. J., López, M. A. and Parra, J., *Stability of linear inequality systems in a parametric setting*, J. Optim. Theory Appl., 125 (2005), no. 2, 275–297.
- [107] 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).
- [108] 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.

- [109] Cánovas, M. J.; López, M. A.; Parra, J.; Toledo, F. J., *Distance of ill-posedness and the consistency value of linear semi-infinite inequality systems*. Math. Program. 103 (2005), no. 1, Ser. A, 95–126.
- [110] Cánovas, Mara J.; López, Marco A.; Parra, Juan; Toledo, F. Javier, *Lipschitz continuity of the optimal value via bounds on the optimal set in linear semi-infinite optimization*. Math. Oper. Res. 31 (2006), no. 3, 478–489.
- [111] Cánovas, M. J.; López, M. A.; Parra, J.; Toledo, F. J., *Ill-posedness with respect to the solvability in linear optimization*. Linear Algebra Appl. 416 (2006), no. 2-3, 520–540.
- [112] Cánovas, M. J.; López, M. A.; Parra, J.; Toledo, F. J., *Distance to solvability/unsolvability in linear optimization*. SIAM J. Optim. 16 (2006), no. 3, 629–649.
- [113] Cnivas, M. J.; Lpez, M. A.; Parra, J.; Toledo, F. J., *Error bounds for the inverse feasible set mapping in linear semi-infinite optimization via a sensitivity dual approach*. Optimization 56 (2007), no. 5-6, 547–563.
- [114] Cánovas, M. J.; López, M. A.; Parra, J.; Toledo, F. J., *Sufficient conditions for total ill-posedness in linear semi-infinite optimization*. European J. Oper. Res. 181 (2007), no. 3, 1126–1136.
- [115] 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).
- [116] 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).
- [117] 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).
- [118] 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).
- [119] Charnes, A. and Cooper, W.W. and Kortanek, K.O., *Semi-infinite programming, differentiability and geometric programming. II*, Appl. Math., 14, 15-22, (1969).
- [120] 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).
- [121] Charnes, A. and Gribik, P.R. and Kortanek, K.O., *Separably-infinite programming*, Z. Oper. Res. 24, 33-45, (1980).
- [122] 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).
- [123] 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).
- [124] 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).
- [125] Chao, Kun-Mao and Hardison, Ross C. and Miller, Webb, *Constrained sequence alignment.*, Bull. Math. Biol., 55, 3, 503-524, (1993).
- [126] Chen, Guangya, *Vector variational inequality and its application to multiobjective optimization.*, Chin. Sci. Bull., 34, 12, 969-972, (1989).

- [127] Chen, Xiushu 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).
- [128] Chen, Shen-Yu; Wu, Soon-Yi, *An algorithm for semi-infinite transportation problems*. J. Comput. Appl. Math. 217 (2008), no. 2, 365–380.
- [129] 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).
- [130] Colgen, R., *Necessary conditions for upper semicontinuity in parametric semi-infinite programming*. J. Optimization Theory Appl., 48, 65-79, (1986).
- [131] Colgen, R. and Schnatz, K., *Continuity properties in semi-infinite parametric linear optimization*, Numer. Anal. Optim. 3, 451-460, (1981).
- [132] Colgen, R. and Schnatz, K., *Stetigkeit bei parametrischer semi-infiniter Optimierung*. Z. Angew. Math. Mech. 62, T365 - T367, (1982).
- [133] Collatz, L., *Applications of nonlinear optimization to sciences.*, in Mathematical programming, Proc. int. Congr., Rio de Janeiro 1981, 79-88, (1984).
- [134] 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).
- [135] 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).
- [136] Conn, Andrew R. and Gould, Nicholas I.M., *An exact penalty function for semi-infinite programming*. Math. Program., 37, 19-40, (1987).
- [137] 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).
- [138] Coope, I.D. and Watson, G.A., *A projected Lagrangian algorithm for semi-infinite programming*. Math. Program., 32, 337-356, (1985).
- [139] Craven, B.D., *Perturbed minimization, with constraints adjoined or deleted*. Math. Operationsforsch. Stat., Ser. Optimization ", 14, 23-36, (1983).
- [140] Craven, B.D., *Nondifferentiable optimization by smooth approximations*. Optimization, 17, 3-17, (1986).
- [141] Craven, B.D., *An algorithm for minimax*. Z. Oper. Res., 35, 5, 425-434, (1991).
- [142] Craven, B.D. and Glover, B.M., *An approach to vector subdifferentials*. Optimization, 38, 3, 237-251, (1996).
- [143] Craven, B.D. and Glover, B.M. and Zlobec, S., *On minimization subject to cone constraints*. Numer. Funct. Anal. Optimization, 6, 363-378, (1983).
- [144] 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).

- [145] 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).
- [146] Dam, H. H.; Liu, Y.; Teo, K. L.; Nordholm, S., *Semi-infinite quadratic optimization method using dual parametrization with application to antenna array*. Optimization 55 (2006), no. 1-2, 3-18.
- [147] da Silva, A.R., *On parametric infinite optimization.*, in Parametric optimization and approximation, Conf. Oberwolfach 1983, ISNM 72, 83-95, (1985).
- [148] 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).
- [149] Darkhovskij, B.S. and Levitin, E.S., *Quadratic optimality conditions for problems of semi-infinite mathematical programming.*, Trans. Mosc. Math. Soc. , 175-225, (1986).
- [150] 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).
- [151] Dentcheva, Darinka; Ruszczyński, Andrzej, *Semi-infinite probabilistic optimization: first-order stochastic dominance constraints*, Optimization, 53, 5-6, 583-601, (2004).
- [152] Dentcheva, Darinka; Ruszczyński, Andrzej, *Composite semi-infinite optimization*. Control Cybernet. 36 (2007), no. 3, 633–646.
- [153] Dibowski, A., *Zur Implementierung eines Loesungsverfahrens 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).
- [154] Dinh, Nguyen; Goberna, Miguel A.; López, Marco A.; Son, Ta Quang, *New Farkas-type constraint qualifications in convex infinite programming*. ESAIM Control Optim. Calc. Var. 13 (2007), no. 3, 580–597.
- [155] Dontchev, A.L. and Zolezzi, T., Well-posed Optimization Problems, Springer Verlag, (1993).
- [156] Dotto, Oclide Jose, *An extension of a Meyer's theorem.*, Port. Math. 42, 137-150, (1983/84).
- [157] 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).
- [158] 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).
- [159] Duffin R.J., *Infinite programs*, in Linear Inequalities and related Systems, Kuhn, Tucker (eds.) Princeton University Press, 157-170, (1956).
- [160] Duffin R.J., *Convex analysis treated by linear programming*, Math. programming, 4, 125-143, (1973).
- [161] Duffin R.J., Karlovitz L.A., *An infinite linear program with a duality gap*, Management Sc. 12, 122=134, (1965).
- [162] 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).

- [163] Dugosija, D., *On stability in quasiconvex semi-infinite optimization*, Yugoslav Journal of Operations Research, 1, 135-140, (1991).
- [164] Dula, Jose H., *An upper bound on the expectation of simplicial functions of multivariate random variables.*, Math. Program. 55A, No.1, 69-80, (1992).
- [165] 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).
- [166] Elia, N. and Dahleh, M.A., *l_1 -minimization with magnitude constraints in the frequency domain*, Journal of Optimization Theory and Applications, 93, 27-51, (1997).
- [167] Eremin, I.I., *Duality and approximation for improper problems of mathematical programming.*, Sov. J. Comput. Syst. Sci., 25, 5, 28-39, (1987).
- [168] Fahlander K. *Computer programs for semi-infinite optimization*, TRITA-AN-7312, Dep. Numer. Anal. Royal Institute of Techn. S-10044 Stockholm, 70, (1973).
- [169] Faigle U., Kern W., Still G., Algorithmic Principles of Mathematical Programming, Kluwer, Dordrecht, (2002).
- [170] 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).
- [171] Fajardo, M. D.; López, M. A., *Some results about the facial geometry of convex semi-infinite systems*. Optimization 55 (2006), no. 5-6, 661–684.
- [172] Fajardo, M. D.; López, M. A., *Some results on quasipolyhedral convexity*. TOP 15 (2007), no. 1, 103–113.
- [173] 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).
- [174] 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).
- [175] 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).
- [176] 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).
- [177] 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).
- [178] Fang, Shu-Cherng and Wu, Soon-Yi, *An inexact approach to solving linear semi-infinite programming problems.*, Optimization, 28, 3-4, 291-299, (1994).
- [179] Fang, S.-C. and Wu, Soon-Yi, *Solving min-max problems and linear semi-infinite programs.*, Comput. Math. Appl., 32, 6, 87-93, (1996).
- [180] 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).
- [181] Faybusovich, L., *On Nesterov's approach to semi-infinite programming*, Acta Appl. Math. 74, 195-215, (2002).

- [182] Felcyn, P., *Limimal number of a convex body with a smooth boundary*, Demonstratio Mathematica, 21, 393-398, (1988).
- [183] Feng, Zhi Guo; Teo, Kok Lay; Rehbock, Volker, *A smoothing approach for semi-infinite programming with projected Newton-type algorithm*. J. Ind. Manag. Optim. 5 (2009), no. 1, 141–151.
- [184] Ferrer, A., *Applicability of deterministic global optimization to the short-term hydrothermal coordination problem*, Technological University of Catalonia, thesis, (2004).
- [185] 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).
- [186] Ferris, Michael C. and Philpott, Andrew B., *On affine scaling and semi-infinite programming.*, Math. Program. 56A, No.3, 361-364 (1992).
- [187] 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).
- [188] 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).
- [189] 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).
- [190] Fischer, Bernd and Modersitzki, Jan, *An algorithm for complex linear approximation based on semi-infinite programming.*, Numer. Algorithms , 5, 1-4, 287-297, (1993).
- [191] Fischer, Thomas, *Continuous selections for semi-infinite optimization.*, Parametric optimization and related topics, Int. Conf., Plaue/GDR 1985, Math. Res. 35, 95-112, (1987).
- [192] Fischer, Thomas, *Contributions to semi-infinite linear optimization.*, Approximation and optimization in mathematical physics, Meth. Verf. Math. Phys. 27, 175-199, (1983).
- [193] Fischer, Thomas, *Stetige Selektionen bei semi-infiniter Optimierung. (Continuous selections in semi-infinite optimization)*., Frankfurt/Main: R. G. Fischer Verlag. V, 77 S. (1986).
- [194] Fischer, T., *Strong unicity and alternation for linear optimization.*, J. Optimization Theory Appl., 69, 2, 251-267, (1991).
- [195] Fischer, T. and Todorov, M., *The almost Chebyshev property in linear semi-infinite programming.*, Optimization , 25, 2-3, 161-178, (1992).
- [196] Flachs, Jacob, *Sensitivity analysis in generalized rational approximation with restricted denominator.*, in Parametric optimization and approximation, Conf. Oberwolfach 1983, ISNM 72, 126-147, (1985).
- [197] 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).
- [198] Floudas, Christodoulos A.; Stein, Oliver, *The adaptive convexification algorithm: a feasible point method for semi-infinite programming*. SIAM J. Optim. 18 (2007), no. 4, 1187–1208.
- [199] Fryer, M.J. and Greenman, J.V., *Optimisation theory. Applications in OR and economics.*, London: Edward Arnold. VII, 293 p. (1987).
- [200] Fueloep, J., *A semi-infinite programming method for approximating load duration curves by polynomials.*, Computing, 49, 3, 201-212, (1992).

- [201] 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).
- [202] 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').
- [203] Gale, D. and Klee, V.L., *Convex functions on convex polytopes*, Mathematica Scandinavica, 7, 379-391, (1959).
- [204] 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).
- [205] 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).
- [206] Geiger, C., *Ueber notwendige Bedingungen bei semi-infiniten Optimierungsaufgaben.*, Operations Research Verfahren XXV, Symp. Heidelberg 1976, Teil 1, 355-366, (1977).
- [207] 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).
- [208] 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).
- [209] Glashoff K., Gustafson S.-A., *Numerical treatment of parabolic boundary control problems*, J. Optim. Theory Appl., 19, 645-663, (1976).
- [210] Glashoff K., Gustafson S.-A., *Linear Optimization and Approximation*, Springer Verlag, Berlin, (1983).
- [211] Goche 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).
- [212] Goberna, M.A., *Haar duality and moment problems.*, (Spanish. English summary) Trab. Invest. Oper. 1. No.1, 105-114, (1986).
- [213] Goberna, M.A., *Boundedness relations in linear semi-infinite programming.*, Adv. Appl. Math., 8, 53-68, (1987).
- [214] 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)
- [215] Goberna, M.A., *Linear semi-infinite optimization: recent advances*, Department of Statistics and Operations Research, Alicante University, technical report, (2004).
- [216] Goberna, M. A.; Jeyakumar, V.; López, M. A., *Necessary and sufficient constraint qualifications for solvability of systems of infinite convex inequalities*. Nonlinear Anal. 68 (2008), no. 5, 1184–1194.
- [217] Goberna, M.A. and Jornet, V., *A note about linear inequality systems and duality.*, Z. Oper. Res., Ser. A, 31, 71-78, (1987).
- [218] Goberna, M.A. and Jornet, V., *Geometric fundamentals of the simplex method in semi-infinite programming*, Operations Research Spektrum, 10, 145-152, (1988).

- [219] Goberna, M.A. and Jornet, V., *On Haar's dual problem.*, OR Spektrum, 18, 4, 209-217, (1996).
- [220] 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).
- [221] 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.
- [222] 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).
- [223] Goberna, M. A., V. Jornet and M.D. Molina, *Saturation in linear optimization*, J. Optimization Theory Appl. 117, 327-348, (2003).
- [224] Goberna, M. A., V. Jornet and M.D. Molina, *Uniform saturation*, Tech. Report, Dep. Estadística e Investigación Operativa, Universidad de Alicante, 2003.
- [225] 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).
- [226] 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).
- [227] Goberna, M. A., V. Jornet and M. Rodríguez, *On linear systems containing strict inequalities*, Linear Algebra and its Applications 360, 151-171, (2003).
- [228] 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).
- [229] 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).
- [230] Goberna, Miguel A.; Larriqueta, Mercedes; Vera de Serio, Virginia N., *Stability of the intersection of solution sets of semi-infinite systems*. J. Comput. Appl. Math. 217 (2008), no. 2, 420–431.
- [231] 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).
- [232] Goberna, M.A. and Lopez, M.A., *Reduction and discrete approximation in linear semi-infinite programming.*, Optimization, 18, 643-658, (1987).
- [233] 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).
- [234] M.A. Goberna and M.A. López, *Optimal value function in semi-infinite programming.*, J. Optim. Theory Appl., 59, 2, 261-280, (1988).
- [235] 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).
- [236] Goberna, M.A. and Lopez, M.A., *Dimension and finite reduction in linear semi-infinite programming.*, Optimization, 25, 2-3, 143-160, (1992).

- [237] Goberna, M.A. and Lopez, M.A., *Optimality theory for semi-infinite linear programming.*, Numer. Funct. Anal. Optimization, 16, 5-6, 669-700, (1995).
- [238] 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).
- [239] 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).
- [240] 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).
- [241] 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).
- [242] Goberna M.A., López M.A., Linear Semi-Infinite Optimization, John Wiley & Sons, Chichester, (1998).
- [243] Goberna, M. A., and M. A. López (eds.), *Semi-Infinite Programming: Recent Advances*, Kluwer, Dordrecht, 2001.
- [244] 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).
- [245] Goberna, M.A. and Lopez, M.A. and Pastor, J., *Farkas-Minkowski systems in semi-infinite programming.*, Appl. Math. Optimization, 7, 295-308, (1981).
- [246] 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).
- [247] 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).
- [248] 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).
- [249] 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).
- [250] Goberna, M.A. and Lopez, M.A. and Todorov, M., *Unicity in linear optimization.*, J. Optimization Theory Appl., 86, 1, 37-56, (1995).
- [251] 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).
- [252] 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).
- [253] 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).
- [254] Goberna, M.A. and López, M.A. and Todorov, M., *Extended active constraints in linear optimization with applications*, Technical Report, Alicante University”,, (2001).

- [255] 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).
- [256] 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).
- [257] 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).
- [258] M.A. Goberna and J.A. Mira and G. Torregrosa, *Redundancy in linear semi-infinite systems*, Report, Alicante University, (1998).
- [259] 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).
- [260] 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).
- [261] Goberna, M. A.; Todorov, M. I., *Generic primal-dual solvability in continuous linear semi-infinite programming*. Optimization 57 (2008), no. 2, 239–248.
- [262] Gómez, J.A., P.J. Bosch, and J. Amaya, *Duality for inexact semi-infinite linear programming*, Optimization, 54, 1, 1-25, (2005).
- [263] Gómez, Juan Alfredo; Bosch, Paul, *Necessary conditions and duality for inexact nonlinear semi-infinite programming problems*. Math. Methods Oper. Res. 65 (2007), no. 1, 45–73.
- [264] 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).
- [265] Gorbunov, V.K., *Ueber die Reduktion von Problemen der optimalen Regelung auf endlichdimensionale.*, (Russian) Zh. Vychisl. Mat. Mat. Fiz., 18, 1083-1095, (1978).
- [266] 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).
- [267] Görner S., *Ein Hybridverfahren zur Lösung nicht-linearer semi-infiniter Optimierungsprobleme*, PhD-thesis, Technische Universität Berlin, Berlin (1997).
- [268] Gramlich, Guenther, *SQP-Methoden fuer semiinfinite Optimierungsprobleme. (SQP-methods for semiinfinite optimization problems)*, PhD-thesis, Trier: Univ. Trier, FB IV, 101 S. (1990).
- [269] 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).
- [270] 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).
- [271] 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).

- [272] 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).
- [273] 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).
- [274] Grotzinger, Stephen J., *Supports and convex envelopes.*, Math. Program., 31, 339-347, (1985).
- [275] Guarino Lo Bianco, Corrado; Piazzì, 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, 121–132, (2004).
- [276] 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).
- [277] Guerra, F. and Jiménez, M.A., *On feasible sets defined through Chebyshev approximation*, Mathematical Methods of Operations Research, 47, 255-264, (1998).
- [278] Guerra, F. and Orozco J., *On constraint qualifications in semi-infinite optimisation*, Proceedings PARAOPT VII (Puebla 2002), Aportaciones Matematicas 18. 133-141, (2004).
- [279] Guerra Vázquez, Francisco; Rueckmann, Jan-J., *An approximation of feasible sets in semi-infinite optimization*. Top 10 (2002), no. 2, 325–336.
- [280] Guerra, Francisco; Orozco, José A.; Rueckmann, Jan-J., *On constraint qualifications in semi-infinite optimization*. Parametric optimization and related topics. VII, 133–141, Aportaciones Mat. Investig., 18, Soc. Mat. Mexicana, 2004.
- [281] Guerra Vázquez, Francisco; Rueckmann, Jan-J., *Semi-infinite programming: properties and applications to economics*. New tools of economic dynamics, 373–393, Lecture Notes in Econom. and Math. Systems, 551, Springer, Berlin, 2005.
- [282] Guerra Vázquez, Francisco; Rückmann, J.-J., *Extensions of the Kuhn-Tucker constraint qualification to generalized semi-infinite programming*. SIAM J. Optim. 15 (2005), no. 3, 926–937.
- [283] Guerra Vázquez, F.; Rückmann, J.-J.; Stein, O.; Still, G., *Generalized semi-infinite programming: a tutorial*. J. Comput. Appl. Math. 217 (2008), no. 2, 394–419.
- [284] Gugat, M., *One-sided derivatives for the value function in convex parametric programming*., Optimization, 28, 3-4, 301-314, (1994).
- [285] 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).
- [286] Gugat, M., *An algorithm for Chebyshev approximation by rationals with constrained denominators.*, Constructive Approximation, 12, 2, 197-221, (1996).
- [287] Gugat, Martin, *Semi-infinite terminal problems: A Newton type method.*, Optimization, 44, 1, 25-48, (1998).

- [288] 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).
- [289] Gugat, M., *Error bounds for infinite systems of convex inequalities without Slater's condition*, Math. Programming (Ser. B) 88, 255-275, (2000).
- [290] Günzel, Harald; Jongen, Hubertus Th.; Stein, Oliver, *Generalized semi-infinite programming: on generic local minimizers*. J. Global Optim. 42 (2008), no. 3, 413–421.
- [291] Günzel, Harald; Jongen, Hubertus Th.; Stein, Oliver, *On the closure of the feasible set in generalized semi-infinite programming*. CEJOR Cent. Eur. J. Oper. Res. 15 (2007), no. 3, 271–280.
- [292] Günzel, H.; Jongen, H. Th.; Stein, O., *Generalized semi-infinite programming: the symmetric reduction ansatz*. Optim. Lett. 2 (2008), no. 3, 415–424.
- [293] Günzel, Harald; Jongen, Hubertus Th.; Rückmann, Jan-J., *On stable feasible sets in generalized semi-infinite programming*. SIAM J. Optim. 19 (2008), no. 2, 644–654.
- [294] Gustafson, Sven-Ake, *On the computational solution of a class of general moment problems*, SIAM J. Numer. Anal., 7, 343-357, (1970).
- [295] Gustafson, Sven-Ake, *On computational applications of the theory of the moment problem*, Rocky Mountain J. Math., 4, 227-240, (1974).
- [296] 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).
- [297] 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).
- [298] Gustafson, Sven-Ake, Lectures on semi-infinite programming., Vorlesungsr. SFB 72, Approximation Optimierung, Univ. Bonn 1, 54 p. (1979).
- [299] Gustafson, Sven-Ake *On numerical analysis in semi-infinite programming.*, R. Inst. Technol., Stockh. TRITA-NA-7907, 15 p. (1979).
- [300] 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).
- [301] 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).
- [302] Gustafson, Sven-Ake, *Investigating semi-infinite programs using penalty functions and Lagrangian methods.*, J. Aust. Math. Soc., Ser. B, 28, 158-169, (1986).
- [303] Gustafson, Sven-Ake, *Complementarity and weak duality in semi-infinite programming.*, TRITA-NA, R. Inst. Technol., Stockh. 8217, 12 p. (1982).
- [304] 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).
- [305] 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).

- [306] 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).
- [307] Gustafson, S.-A. and Kortanek, K.O., *On the calculation of optimal longterm airpollution abatement strategies for multiple source areas.*, in Oroceedings Sixth NATO/CCMS Expert panel on Air Pollution Modelling, (1975).
- [308] Gustafson, S.-A. and Kortanek, K.O., *Semi-infinite programming and applications.*, in Mathematical programming, 11th int. Symp., Bonn 1982, 132-157, (1983).
- [309] A. Haar, *Über lineare Ungleichungen*, Acta Math. Szeged, 2, 1-14, (1924).
- [310] Haaren-Retagne E., *A semi-infinite programming algorithm for robot trajectory planning*, Dissertation, University Trier (1992).
- [311] Henrion R., Klatte D., *Metric regularity of the feasible set mapping in semi-infinite optimization*, Appl. Math. Optim. 30, 103-109, (1994).
- [312] 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).
- [313] 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).
- [314] Hanson, M.A., *Continuous-time programming.*, in Continuous-time, fractional and multi-objective programming, Proc. Conf., Canton/NY (USA) 1986, 129-140, (1989).
- [315] Hantoute, A.; López, M. A., *A complete characterization of the subdifferential set of the supremum of an arbitrary family of convex functions*. J. Convex Anal. 15 (2008), no. 4, 831–858.
- [316] Hantoute, A.; López, M. A., *Characterization of total ill-posedness in linear semi-infinite optimization*. J. Comput. Appl. Math. 217 (2008), no. 2, 350–364.
- [317] Hantoute, A.; López, M. A.; Zălinescu, C., *Subdifferential calculus rules in convex analysis: a unifying approach via pointwise supremum functions*. SIAM J. Optim. 19 (2008), no. 2, 863–882.
- [318] 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).
- [319] 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).
- [320] 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).
- [321] 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).
- [322] 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).

- [323] S. Helbig, *Stability in disjunctive linear optimization I: Continuity of the feasible set*, Optimization, 21, 855-869, (1990).
- [324] Helbig, S., *Stability in disjunctive optimization. II: Continuity of the feasible and optimal set.*, Optimization, 31, 1, 63-93, (1994).
- [325] 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).
- [326] 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).
- [327] Henrion, R., *On constraint qualifications.*, J. Optimization Theory Appl. , 72, 1, 187-197, (1992).
- [328] Henrion, R. and Klatte, D., *Metric regularity of the feasible set mapping in semi-infinite optimization.*, Appl. Math. Optimization, 30, 1, 103-109, (1994).
- [329] 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).
- [330] Hettich R., (Ed.), Semi-infinite programming, Lecture Notes in Control and Inf. Sciences, Springer, Berlin (1979).
- [331] Hettich R. *Extremalkriterien für Optimierungs- und Approximationsaufgaben*, Thesis, University of Twente, (1977).
- [332] 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).
- [333] Hettich, R., *Numerical methods for nonlinear Chebyshev approximation.*, in Approximation in Theorie und Praxis, Symp. Siegen 1979, 139-156, (1979).
- [334] 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).
- [335] 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).
- [336] Hettich R., *An implementation of a discretization method for semi-infinite programming*, Math. Programming, 34, 354-361, (1986).
- [337] R. Hettich, *Some recent results in parametric semi-infinite programming*, Optimization Vol. 32, pp. 359-372, (1995).
- [338] Hettich R., Gramlich G., *A note on the implementation of a method for quadratic semi-infinite programming*, Math. Programming 46, 249-254, (1990).
- [339] 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).

- [340] Hettich R., Haaren E., Ries M., Still G., *Accurate numerical approximations of eigenfrequencies of elliptic membranes*, Z. Angew. Math. Mech. 67, 589-597, (1989).
- [341] 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).
- [342] 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)
- [343] R. HETTICH, H.Th. JONGEN, O. STEIN, *On continuous deformations of semi-infinite optimization problems*, in: M. Florenzano, J. Guddat, M. Jimenez, H.Th. Jongen, G. Lopez Lagomasino, F Marcellan (eds.): Approximation and Optimization in the Caribbean II, Peter Lang Verlag, Frankfurt a.M., (1995), 406-424.
- [344] Hettich R., Kortanek K., Semi-infinite programming: Theory, methods and applications, SIAM Review, vol 35, N0.3, 380-429, (1993).
- [345] 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).
- [346] 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).
- [347] R. Hettich, G. Still, *Second order optimality conditions for generalized semi-infinite programming problems*, Optimization Vol. 34, pp. 195-211, (1995).
- [348] 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).
- [349] Hettich R. and Zencke P., Numerische Methoden der Approximation und der semi-infiniten Optimierung, Teubner, Stuttgart (1982).
- [350] Hettich, R. and Zencke, P., *Superlinear konvergente Verfahren fuer semi-infinite Optimierungsprobleme im stark eindeutigen Fall.*, in Konstruktive Methoden der finiten nicht-linearen Optimierung, Tag., Oberwolfach 1980, ISNM 55, 103-119, (1980).
- [351] 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).
- [352] Hettich, R. and Zencke, P., *An algorithm for general restricted rational Chebyshev approximation.*, SIAM J. Numer. Anal., 27, 4, 1024-1033, (1990).
- [353] Higgins, J.E. and Polak, E., *An ϵ -active barrier-function method for solving minimax problems.*, Appl. Math. Optimization, 23, 3, 275-297, (1991).
- [354] J.-B. Hiriart-Urruty and C. Lemaréchal, Convex Analysis and Minimization Algorithms I, Springer-Verlag, Berlin, (1993).
- [355] Hoffman, A.J., *On approximate solutions of systems of linear inequalities*, Journal of Research of the National Bureau of Standards, 49, 263-265, (1952).
- [356] Hoffmann K.H., Klostermaier A., *A semi-infinite linear programming procedure and applications in approximation problems in optimal control*, in Approximation Theory II, Lorentz et.al. (eds.), Academic Press, new York, 379-389, (1976).

- [357] Hoffmann A. and Reinhardt R., *On reverse Chebyshev approximation problems*, Technical University of Ilmenau, Preprint No. M08/94, (1994).
- [358] R.B. Holmes, Geometric Functional Analysis and its Applications, Springer-Verlag, New York-Heidelberg-Berlin, (1975).
- [359] 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).
- [360] Hu, C.F. and Fang, S.C., *A relaxed cutting plane algorithm for solving fuzzy inequality systems*, Optimization, 45, 89-106, (1999).
- [361] Hu, Hui, *A one-phase algorithm for semi-infinite linear programming.*, Math. Program., Ser. A, 46, 1, 85-103, (1990).
- [362] 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).
- [363] Hu, H., *A globally convergent method for semi-infinite linear programming.*, J. Glob. Optim., 8, 2, 189-199, (1996).
- [364] Hu, H., *Perturbation analysis of global error bounds for systems of linear inequalities*, Math. Programming (Ser. B) 88, 277-284, (2000).
- [365] 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).
- [366] 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).
- [367] 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).
- [368] Ito, Rika; Hirabayashi, Ryuichi, *Design of FIR filter with discrete coefficients based on semi-infinite linear programming method*. Pac. J. Optim. 3 (2007), no. 1, 73–86.
- [369] 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).
- [370] 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).
- [371] Jahn, J., *Zur vektoriellen linearen Tschebyscheff-Approximation.*, Math. Operationsforsch. Stat., Ser. Optimization, 14, 577-591, (1983).
- [372] G.J.O. Jameson, Topology and Normed Spaces, Chapman and Hall, London, (1974).
- [373] Janc, Mirko, *A note on approximate solutions in parametric semi-infinite optimization.*, Mat. Vesn. 6(19)(34), 371-377, (1982).
- [374] Janin, Robert and Gauvin, Jacques, *Lipschitz-type stability in nonsmooth convex programs*, SIAM J. Control Optimization, 38, 1, 124-137, (1999).
- [375] Jansen, Benjamin, Interior point techniques in optimization. Complementarity, sensitivity and algorithms., Applied Optimization. 6. Dordrecht: Kluwer Academic Publishers. xiv, 277 p., (1997).

- [376] Jarre F., *Comparing two interior point approaches for semi-infinite programs*, Preprint, University of Trier, (1999).
- [377] D. Jaume and R. Puente, *Curvatura de caras de conjuntos convexos como invariante bajo conjugacion*, techn. report, Departamento de Matemáticas, Universidad Nacional de San Luis, Argentina, (2000).
- [378] Jaume, D., and R. Puente, *Representability of convex sets by analytical linear inequality systems*, Linear Algebra Appl. 380, 135-150, (2004).
- [379] B. Jerez, *General Equilibrium with Asymmetric Information: A Dual Approach*, techn. report, Department of Economics, Universitat Autnoma de Barcelona, (2000).
- [380] Jerez, B., *A dual characterization of incentive efficiency*, J. Econ. Theory, 112, 1-34, (2003).
- [381] Jeroslow, Robert G., *Uniform duality in semi-infinite convex optimization.*, Math. Program., 27, 144-154, (1983).
- [382] Jeroslow, R.G. and Karney, D.F., *Cluster sets of vector series.*, Adv. Appl. Math., 5, 470-475, (1984).
- [383] Jeroslov R.G., Kortanek K.O., *On semi-infinite systems of linear inequalities*, Israel J. Math. 10, 252-258, (1971).
- [384] Jess, A., H.Th. Jongen, L. Neralic, and O. Stein, *A semi-infinite programming model in data envelopment analysis*, Optimization 49, 369-385, (2001).
- [385] Jeyakumar, V. and Gwinner, J., *Inequality systems and optimization.*, J. Math. Anal. Appl., 159, 1, 51-71, (1991).
- [386] Jeyakumar, V. and Wolkowicz, H., *Zero duality gaps in infinite-dimensional programming.*, J. Optimization Theory Appl., 67, 1, 87-107, (1990).
- [387] Jeyakumar,V., *Characterizing set containments involving infinite convex constraints and reverse-convex constraints*, SIAM J. Optimization, 13, 947-959, (2003).
- [388] Jian, Jin-Bao; Xu, Qing-Juan; Han, Dao-Lan, *A norm-relaxed method of feasible directions for finely discretized problems from semi-infinite programming*. European J. Oper. Res. 186 (2008), no. 1, 41–62.
- [389] 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).
- [390] Jiménez, M.A. and Juárez, E.L. and Guerra, F., *Transformation of some mixed approximation problems by optimization methods*, Optimization, 2001, to appear.
- [391] Jimenez, Miguel A. and Rueckmann, Jan-J., *On equivalent stability properties in semi-infinite optimization.*, Z. Oper. Res., 41, 2, 175-190, (1995).
- [392] Jess A., Jongen H.Th., Neralic L., Stein O., *A semi-infinite programming model in data envelopment analysis*, Optimization 49, 369-385, (2001).
- [393] Jongen H.Th., Jonker P., Twilt F., *Nonlinear Optimization in finite Dimensions*, Kluwer, Dordrecht, (2000).
- [394] 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).

- [395] 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).
- [396] 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).
- [397] H. Th Jongen, J.-J. Rückmann, O. Stein, *Disjunctive optimization: critical point theory*, J. Optim. Theory Appl. 93, 2, 321-336 (1997).
- [398] 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).
- [399] H. Th Jongen, O. Stein, *On generic one-parametric semi-infinite optimization*, SIAM J. Optim. Vol. 7, no. 4, 1103-1137, (1997).
- [400] 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).
- [401] Jongen, Hubertus Th.; Stein, Oliver, *Smoothing by mollifiers. I. Semi-infinite optimization*. J. Global Optim. 41 (2008), no. 3, 319-334.
- [402] Jongen, Hubertus Th. and Triesch, Eberhard, *Optimierung A: Skript zur Vorlesung (Stand Sommersemester 1988)*., Aachen: Augustinus-Buchhandlung. 152 S., (1988).
- [403] 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).
- [404] Jongen, H.Th. and Wetterling, W. and Zwier, G., *On sufficient conditions for local optimality in semi-infinite programming.*, Optimization, 18, 165-178, (1987).
- [405] 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).
- [406] 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).
- [407] 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).
- [408] Jongen H.Th., Twilt F., Weber G.-W. *Semi-infinite optimization: structure and stability of the feasible set*, JOTA, 72, 529-552, (1992)
- [409] 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).
- [410] Juergens, Uwe, *Zur Konvergenz semiinfiniter Mehrfachaustauschalgorithmen.*, Fachbereich Mathematik der Universitaet Hamburg. 198 S. (1986).
- [411] Juhnke, Friedrich, *The circumsphere problem and linear semi-infinite optimization*, Beiträge Algebra Geom., 28, 147-156, (1989).
- [412] 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).

- [413] Juhnke, Friedrich, *Bounds of the affine breadth eccentricity of convex bodies via semi-infinite optimization*, Beiträge Algebra Geom., 45, 2, 557–568, (2004).
- [414] Juhnke, F., and O. Sarges, *Minimal spherical shells and linear semi-infinite optimization*, Contributions to Algebra and Geometry 41, 93-105, (2000).
- [415] Kaliski, J. and Haglin, D. and Roos, C. and Terlaky, T., *Logarithmic barrier decomposition methods for semi-infinite programming*, International Transactions in Operations Research, 4, 285-303, (1997).
- [416] 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).
- [417] Kanzi, N.; Nobakhtian, S., *Nonsmooth semi-infinite programming problems with mixed constraints*. J. Math. Anal. Appl. 351 (2009), no. 1, 170–181.
- [418] 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)
- [419] 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).
- [420] Kaplan, A. and Tichatschke, R., *Stable approximation schemes for ill-posed convex variational problems.*, Sib. Adv. Math., 2, 1, 123-132, (1992).
- [421] 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).
- [422] Kaplan, A.A. and Tichatschke, R., *A regularized penalty method for solving convex semi-infinite programs.*, Optimization, 26, 3-4, 215-228, (1992).
- [423] 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).
- [424] Kaplan, A.A. and Tichatschke, R., *Variational inequalities and convex semi-infinite programming problems.*, Optimization, 26, 3-4, 187-214, (1992).
- [425] Kaplan, A. and Tichatschke, R., *Iterative processes for solving incorrect convex variational problems.*, J. Glob. Optim., 3, 2, 243-255, (1993).
- [426] 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).
- [427] 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).
- [428] 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).
- [429] Kaplan A. and Tichatschke, R., *On the numerical treatment of a class of semi-infinite terminal problems.*, Optimization, 41, 1, 1-36, (1997).

- [430] A. Kaplan and R. Tichatschke, *Proximal Interior Point Approach in Convex Programming (Ill-Posed Problems)*, Optimization, 45, 117-147, (1999).
- [431] A. Kaplan and R. Tichatschke, *Proximal Interior Point Method for Convex Semi-Infinite Programming*, Optimization Methods and Software, (2001).
- [432] Karney, D.F., *Duality gaps in semi-infinite programming, an approximation problem*, Math. Programming, 20, 129-143, (1981).
- [433] Karney, D.F., *Clark's theorem for semi-infinite convex programs*, Adv. Appl. Math., 2, 7-13, (1981).
- [434] Karney, D.F., *A duality theorem for semi-infinite convex programs and their finite subprograms*, Math. Programming, 27, 75-82, (1983).
- [435] 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).
- [436] Karney, D.F., *In a semi-infinite program only a countable subset of the constraints is essential.*, J. Approximation Theory, 44, 69-72, (1985).
- [437] Kawasaki H., *The upper and lower second order directional derivatives of a sup-type function*, Mathematical Programming 41, 327-339, (1988)
- [438] 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).
- [439] Kawasaki, H., *Second order necessary optimality conditions for minimizing a sup-type function.*, Math. Program., Ser. A , 49, 2, 213-229, (1990).
- [440] Kawasaki H., *Second-Order necessary and sufficient optimality conditions for minimizing a sup-type function*, Appl. Math. Optim. 26, 195-220, (1992).
- [441] 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).
- [442] 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).
- [443] 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, Birkhäuser, Basel.
- [444] Khristov, G. and Todorov, M., *Semi-infinite optimization. Existence and uniqueness of the solution*, Math. Balk., 2, 182-191, (1988).
- [445] 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).
- [446] Kiwiel, Krzysztof C., *A linearization algorithm for optimizing control systems subject to singular value inequalities.*, IEEE Trans. Autom. Control AC-31, 595-602, (1986).
- [447] Klatte, Diethard, *Sensitivity analysis in nonlinear optimization.*, in Operations research, Proc. 15th Symp., Vienna/Austria 1990, Methods Oper. Res. 64, 81-90, (1991).

- [448] 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).
- [449] 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).
- [450] Klatte, Diethard, *Stable local minimizers in semi-infinite optimization: Regularity and second-order conditions.*, J. Comput. Appl. Math., 56, 1-2, 137-157, (1994).
- [451] 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).
- [452] 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).
- [453] 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).
- [454] Klatte, D. and Li, W., *Asymptotic constraint qualifications and global error bounds for convex inequalities*, Mathematical Programming,, B 84, 137-160, (1999).
- [455] Klatte, D. and Tammer, K., *On second-order sufficient optimality conditions for $C^{1,1}$ -optimization problems.*, Optimization, 19, 2, 169-179, (1988).
- [456] 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).
- [457] Kloetzler, R., *Flussoptimierung. (Flow optimization)*., Z. Angew. Math. Mech. 74, No.6, T 593-T 595, (1994).
- [458] 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).
- [459] Kocvara, Michal and Zowe, Jochem, *Free material optimization.*, Doc. Math., J. DMV, Extra Vol. ICM Berlin 1998, vol. III, 707-716, (1998).
- [460] M. Kojima and L. Tunel, *Discretization and Location in Successive Convex Relaxation Methods for Nonconvex Quadratic Optimization Problems*, technical report, Department of Mathematical and Computing Sciences, Tokyo Institute of Technology, (1998).
- [461] Kolbin, V.V., Systems optimization methodology. Part 2. Transl. from the Russian by Y. M. Donets., Singapore: World Scientific. xi, 310 p., (1999).
- [462] 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).
- [463] Kortanek, K.O., *Constructing a perfect duality in infinite programming*, Appl. Math. Opt. 3, 357-372, (1977).

- [464] 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).
- [465] Kortanek, K.O., *Using generalized finite sequences in mathematical physics*, Dep. of Mathematics, Carnegie Mellon University, Pittsburgh, (1984).
- [466] 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).
- [467] Kortanek, K.O., *Semi-infinite programming duality and finite elements in plane stress plasticity.*, Util. Math., 28, 219-242, (1985).
- [468] Kortanek, K.O., *Semi-infinite programming duality for order restricted statistical inference models.*, Z. Oper. Res., 37, 3, 283-301, (1993).
- [469] Kortanek, K.O., *Vector-supercomputer experiments with the primal affine linear programming scaling algorithm.*, SIAM J. Sci. Comput., 14, 2, 279-294, (1993).
- [470] 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).
- [471] 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).
- [472] 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).
- [473] 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).
- [474] Kortanek, K.O. and Strojwas, H.M., *On constraint sets of infinite linear programs over ordered fields*, Mathematical Programming, 33, 146-161, (1985).
- [475] Kortanek, Kenneth O. and Yamasaki, Maresugu, *Semi-infinite transportation problems.*, J. Math. Anal. Appl., 88, 555-565, (1982).
- [476] K.O. Kortanek and V.G. Medvedev, Building and Using Dynamic Interest Rate Models, Wiley, Chichester, 2001.
- [477] Kortanek K.O., Yamasaki M., *Semiinfinite transportation problems*, J. Mat. Anal. Appl., 88, 555-565, (1982).
- [478] K.O. Kortanek and Q. Zhang, *Perfect duality in semi-infinite and semidefinite programming*, Math. Programming (Ser. A) 91, 127-144, (2001).
- [479] Kortanek, K.O., Zhu J., *New purification algorithms for linear programming*, Nav. Res. Logist. 35, 571-683, (1988).
- [480] 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).
- [481] Kostyukova, O.I., An algorithm constructing solutions for a family of linear semi-infinite problems, *J. Optimization Theory Appl.* 110, 585-609, (2001).
- [482] 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).

- [483] 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).
- [484] 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).
- [485] 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).
- [486] Kuschel, Norbert and Rackwitz, Ruediger, *Two basic problems in reliability-based structural optimization.*, Math. Methods Oper. Res., 46, 3, 309-333, (1997).
- [487] 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).
- [488] Lai, H.-C. and Wu, S.-Y., *On linear semi-infinite programming problems: An algorithm*, Numerical Functional Analysis and Optimization, 13, 287-304, (1992).
- [489] Lai, H.C. and Wu, S.Y., *Linear programming in measure spaces.*, Optimization, 29, 2, 141-156, (1994).
- [490] 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).
- [491] Le, Weiliang and Peng, Qinke and Hu, Baosheng, *A general embedded optimization problem.*, (Chinese. English summary) J. Syst. Sci. Math. Sci., 9, 2, 83-90, (1989).
- [492] Lee, H. W. J.; Wong, K. H., *Semi-infinite programming approach to nonlinear time-delayed optimal control problems with linear continuous constraints*. Optim. Methods Softw. 21 (2006), no. 5, 679–691.
- [493] Lemarechal, Claude, *Nondifferentiable optimization.*, Nonlinear optimization, theory and algorithms; Proc. int. Summer Sch., Bergamo/Italy 1979, 149-199, (1980).
- [494] Leon, Teresa and Sanmatias, Susana and Vercher, Enriqueta, *A multi-local optimization algorithm.*, Top , 6, 1, 1-18, (1998).
- [495] Leon, Teresa and Vercher, Enriqueta, *A purification algorithm for semi-infinite programming.*, Europ. J. Oper. Res., 57, 3, 412-420, (1992).
- [496] Leon, T. and Vercher, E., *An optimality test for semi-infinite linear programming.*, Optimization, 26, 1-2, 51-60, (1992).
- [497] Leon, Teresa and Vercher, Enriqueta, *New descent rules for solving the linear semi-infinite programming problem.*, Oper. Res. Lett., 15, 2, 105-114, (1994).
- [498] León T., Vercher E., *Optimization under uncertainty and linear semi-infinite programming: a survey*. Semi-infinite programming, Eds. Goberna/López, (Alicante, 1999), 327–348, Non-convex Optim. Appl., 57, Kluwer Acad. Publ., Dordrecht, (2001).
- [499] T. León and S. Sanmatías and E. Vercher, *A Multilocal Optimization Algorithm*, TOP, 6, 1-18, (1998).
- [500] 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).

- [501] León, Teresa; Vercher, Enriqueta, *Solving a class of fuzzy linear programs by using semi-infinite programming techniques*. Fuzzy Sets and Systems 146 (2004), no. 2, 235–252.
- [502] Levinson N., *A class of continuous linear programming problems*, J. Math. Anal. Appl., 16, 73-83, (1966).
- [503] 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).
- [504] Levitin, Evgeny S., *Reduction of generalized semi-infinite programming problems to semi-infinite or piece-wise smooth programming problems*, Preprint, 8-2001, University of Trier, (2001).
- [505] 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).
- [506] 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).
- [507] 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).
- [508] 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).
- [509] Lewis, Adrian, *Extreme points of infinite transportation problems*., Methods Oper. Res., 53, 115-126, (1986).
- [510] Lewis, A.S., *Facial reduction in partially finite convex programming*., Math. Program. 65 A, No.2, 123-138, (1994).
- [511] Lewis, A.S. and Pang, J.-S., *Error bounds for convex inequalities systems*, in Generalized convexity, generalized monotonicity: recent results, (eds.) Cruzeix, J.-P. and Martínez-Legaz, J.E. and Volle, M., Kluwer, 75-110, (1998).
- [512] Lewis, A.S. and Philpott, A.B, *Experiments with affine scaling and semi-infinite programming*., N. Z. J. Math., 24, 2, 49-71, (1995).
- [513] 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).
- [514] 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).
- [515] Li, Zemin, *On optimality conditions in semi-infinite vector optimization problems*., (Chinese. English summary) J. Syst. Sci. Math. Sci., 14, 4, 375-380, (1994).
- [516] 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).
- [517] Li, Dong-Hui; Qi, Liqun; Tam, Judy; Wu, Soon-YiA *smoothing Newton method for semi-infinite programming*, J. Global Optim., 30, 2-3, 169–194, (2004).
- [518] Li, S. J.; Wu, S. Y.; Yang, X. Q.; Teo, K. L., *A relaxed cutting plane method for semi-infinite semi-definite programming*. J. Comput. Appl. Math. 196 (2006), no. 2, 459–473.

- [519] Li, S. J.; Teo, K. L.; Yang, X. Q.; Wu, S. Y., *Robust envelope-constrained filter with orthonormal bases and semi-definite and semi-infinite programming*. Optim. Eng. 8 (2007), no. 3, 299–319.
- [520] 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).
- [521] , 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).
- [522] 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).
- [523] 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).
- [524] Lin, C.-J. and Fang, S.-C. and Wu, Soon-Yi, *Parametric linear semi-infinite programming.*, Appl. Math. Lett., 9, 3, 89-99, (1996).
- [525] 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).
- [526] 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).
- [527] Lin, Lu, *The estimation of deviation by discretization algorithm for a kind of semi-infinite programming and approximation by operators.* (Chinese) J. Baoji Univ. Arts Sci. Math. Colloq. Chin. Univ. 2006, no. 1A, 119–122.
- [528] Lin, L. J., *Existence theorems for bilevel problem with applications to mathematical program with equilibrium constraint and semi-infinite problem.* J. Optim. Theory Appl. 137 (2008), no. 1, 27–40.
- [529] Ling, C.; Qi, L. Q.; Zhou, G. L.; Wu, S. Y., *Global convergence of a robust smoothing SQP method for semi-infinite programming.* J. Optim. Theory Appl. 129 (2006), no. 1, 147–164.
- [530] Linnemann, A., *Higher-order necessary conditions for infinite and semi-infinite optimization.*, J. Optimization Theory Appl., 38, 483-511, (1982).
- [531] 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).
- [532] Liu, Anlin, *The duality of semi-infinite linear programs.*, (Chinese. English summary) J. East China Norm. Univ., Nat. Sci. Ed., 1, 7-12, (1988).
- [533] Liu, Guo-xin, *A homotopy interior point method for semi-infinite programming problems.* J. Global Optim. 37 (2007), no. 4, 631–646.
- [534] 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).
- [535] 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).

- [536] 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).
- [537] 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).
- [538] 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).
- [539] 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).
- [540] 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).
- [541] 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)
- [542] 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).
- [543] López, Marco A.; Vera de Serio, Virginia N., *Stability of inequality systems involving max-type functions*. Pac. J. Optim. 3 (2007), no. 2, 361–378.
- [544] López, Marco; Still, Georg, *Semi-infinite programming*. (Invited paper) European J. Oper. Res. 180 (2007), no. 2, 491–518.
- [545] M.A. López and E. Vercher, *Optimality Conditions for Nondifferentiable Convex Semi-Infinite Programming*, Mathematical Programming, 27, 307-319, (1983).
- [546] Llorca, Natividad; Tijs, Stef; Timmer, Judith, *Semi-infinite assignment problems and related games*, Math. Methods Oper. Res. 57, no. 1, 67–78, (2003).
- [547] 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).
- [548] Luc, Dinh The; Wets, Roger J.-B. Outer semicontinuity of positive hull mappings with application to semi-infinite and stochastic programming. SIAM J. Optim. 19 (2008), no. 2, 700–713.
- [549] 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).
- [550] Luo, Z.-Q., Pang, J.-S. and D. Ralph, Mathematical Programs with Equilibrium Constraints, Cambridge University Press, Cambridge, (1997).
- [551] Luo, Z.-Q. and Roos, C. and Terlaky, T., *Complexity analysis of logarithmic barrier decomposition for semi-infinite linear programming*, Applied Numerical Mathematics, 29, 379-394, (1999).
- [552] L. McLinden, *Stable Monotone Variational Inequalities*, Mathematical Programming, 48, 303-338, (1990).

- [553] 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).
- [554] Marinacci, M. and L. Montrucchio, Subcalculus for set functions and cores of TU games, *J. Mathematical Economics* 39, 1-25, (2003),
- [555] Martini, H. and Soltan, V., *Combinatorial properties on the illumination of convex bodies*, Aequationes Mathematicae, 57, 121-152, (1999).
- [556] Mayne, D.Q. and Polak, E., *A quadratically convergent algorithm for solving infinite dimensional inequalities*, J. Appl. Math. Optim. 9, 15-40, (1982).
- [557] 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).
- [558] 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).
- [559] Medvegyev, Peter, *Semi-infinite linear programming and mathematical economics.*, (Hungarian. English summary) Szigma, 18, 105-121, (1985).
- [560] 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).
- [561] 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).
- [562] Medvedev, Vladimir G., *Optimal observation of initial state and input disturbances for dynamic systems.*, Syst. Anal. Modelling Simulation, 14, 4, 275-288, (1994).
- [563] Meer, Klaus, *Complexity aspects of a semi-infinite optimization problem.* Optimization 57 (2008), no. 1, 143–152.
- [564] Meinardus G., *Approximation of functions: Theory and numerical methods*, Springer-Verlag, Berlin (1967).
- [565] 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).
- [566] 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).
- [567] Meyn, K.H., *A discretization method for systems of linear inequalities.*, J. Optimization Theory Appl., 34, 355-369, (1981).
- [568] 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).
- [569] Mira, J. A., and G. Mora, *Stability of linear inequality systems measured by the Hausdorff metric*, Set-Valued Analysis 8, 253-266, (2000).
- [570] Mitsos, Alexander; Lemonidis, Panayiotis; Lee, Cha Kun; Barton, Paul I., *Relaxation-based bounds for semi-infinite programs.* SIAM J. Optim. 19 (2008), no. 1, 77–113.

- [571] 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).
- [572] Muganda, Godfrey Chamba, *Convergence of constrained optimization problems.*, Util. Math., 37, 215-221, (1990).
- [573] Müller, J., *Accelerated polynomial approximation of finite order entire functions by growth reduction*, Mathematics of Computation, 66, 743-761, (1997).
- [574] Nebeling V., *Eine Schnittmethode für die Lösung semi-infiniter quadratischer Optimierungsaufgaben*, Thesis, Pädag. Hochschule Halle, (1985).
- [575] Nash, P., *Algebraic fundamentals of linear programming*, in Anderson, E.J. and Philpott, A.B. (eds.), Infinite Programming, 37-52, Springer Verlag, (1985).
- [576] 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).
- [577] Ng, K.F., and W.H. Yang, *Error bounds for abstract linear inequality systems*, SIAM J. Optim. 13, 24-43, (2002).
- [578] Ni, Qin; Ling, Chen; Qi, Liqun; Teo, Kok Lay, *A truncated projected Newton-type algorithm for large-scale semi-infinite programming*. SIAM J. Optim. 16 (2006), no. 4, 1137–1154
- [579] 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).
- [580] 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).
- [581] Noubiap, R.F., and W. Seidel, *An algorithm for calculating Gamma-minimax decision rules under generalized moment conditions*, Ann. Stat. 29, 1094-1116, (2001).
- [582] Novikova, N.M., *Iterative regularization for semiinfinite optimization problems.*, Cybernetics, 27, 1, 115-120, (1991).
- [583] Novikova, N.M., *Iterativ stochastic methods for solving variational problems of mathematical physics and operations research.*, J. Math. Sci., 68, 1, 1-124, (1994).
- [584] Nürnberg G., *Global unicity in semi-infinite optimization*, Numer. Funct. Anal. and Optimiz., 8(1), 173-191, (1985).
- [585] Nuernberger, Guenther, *Unicity in semi-infinite optimization.*, in Parametric optimization and approximation, Conf. Oberwolfach 1983, ISNM 72, 231-247, (1985).
- [586] Oettershagen K., *Ein superlinear konvergenter Algorithmus zur Lösung semi-infiniter Optimierungsaufgaben*, Thesis, University of Bonn, (1982).
- [587] Opfer G., *Solving complex approximation problems by semi-infinite optimization techniques: A study on convergence*, Numer. Math. 39, 411-420, (1982).
- [588] Opfer, Gerhard, *Numerische Behandlung komplexer Approximationsaufgaben. (Numerical treatment of complex approximation problems).*, Nova Acta Leopold., Neue Folge, 61, 267, 75-80, (1989).
- [589] 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).

- [590] 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).
- [591] Pales, Zsolt and Zeidan, Vera, *Optimum problems with certain lower semicontinuous set-valued constraints.*, SIAM J. Optim., 8, 3, 707-727, (1998).
- [592] Pang, Li-Ping; Shen, Jie, *An UV-algorithm for semi-infinite multiobjective programming.* J. Appl. Math. Comput. 21 (2006), no. 1-2, 307–313.
- [593] Pang, Li-Ping; Wang, Ming-Zheng; Xia, Zun-Quan, *First-order optimality conditions for two classes of generalized nonsmooth semi-infinite optimization.* Comput. Math. Appl. 56 (2008), no. 5, 1457–1464.
- [594] 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).
- [595] 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).
- [596] 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).
- [597] R.R. Phelps, Convex Functions, Monotone Operators and Differentiability, Springer-Verlag, New York-Heidelberg-Berlin, (1993).
- [598] 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).
- [599] 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).
- [600] 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).
- [601] Polak E., *An implementable algorithm for the optimal design centering, tolerancing and tuning problem,* Journ. Optim. Theory and Appl. 37, 45-67, (1982).
- [602] 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).
- [603] Polak, E., *A modified Nyquist stability test for use in computer-aided design.*, IEEE Trans. Autom. Control AC-29, 91-93, (1984).
- [604] Polak E., *On the mathematical foundation of nondifferentiable optimization in engineering design*, SIAM Rev., 29, 21-89, (1987).
- [605] 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).

- [606] 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).
- [607] Polak, E. and He, L., *Finite-termination schemes for solving semi-infinite satisficing problems.*, J. Optimization Theory Appl., 70, 3, 429-442, (1991).
- [608] 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).
- [609] 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).
- [610] 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).
- [611] Polak, E. and Mayne, D.Q., *Algorithm models for nondifferentiable optimization.*, SIAM J. Control Optimization, 23, 477-491, (1985).
- [612] 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).
- [613] 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).
- [614] 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).
- [615] 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).
- [616] Polak E., Tits A.L., *A recursive quadratic programming algorithm for semi-infinite optimization problems*, J. Appl. Math. Optimiz. 8, 325-349, (1982).
- [617] 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).
- [618] 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).
- [619] 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)
- [620] Polak, E.; Womersley, R. S.; Yin, H. X., *An algorithm based on active sets and smoothing for discretized semi-infinite minimax problems*. J. Optim. Theory Appl. 138 (2008), no. 2, 311–328.
- [621] 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).
- [622] Poljak, Svatopluk and Rendl, Franz, *Nonpolyhedral relaxations of graph-bisection problems.*, SIAM J. Optim., 5, 3, 467-487, (1995).

- [623] Pop, Petrica; Still, Georg, *A direct way to obtain strong duality results in linear semidefinite and linear semi-infinite programming.* Mathematica 47(70) (2005), no. 1, 105–112.
- [624] Potchinkov, Alexander W., *Design of optimal linear phase FIR filters by a semi-infinite programming technique.*, Signal Process., 58, 2, 165-180, (1997).
- [625] 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).
- [626] 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).
- [627] Potchinkov, A. and Reemtsen, R., *The design of FIR filters in the complex plane by convex optimization.*, Signal Process., 46, 2, 127-146, (1995).
- [628] 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).
- [629] Poterasu, Victor Florin, *Critical point constraints in nonlinear programming.*, Methods Oper. Res., 49, 63-76, (1985).
- [630] Powell, M.J.D., *A tolerant algorithm for linearly constrained optimization calculations.*, Math. Program., Ser. B, 45, 3, 547-566, (1989).
- [631] Powell, M.J.D., *Log barrier methods for semi-infinite programming calculations.*, in Lippitakis, 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).
- [632] Powell, M.J.D., *On the number of iterations of Karmarkar's algorithm for linear programming.*, Math. Program. 62B, No.1, 153-197, (1993).
- [633] Price, C.J. and Coope, I.D., *An exact penalty function algorithm for semi-infinite programmes.*, BIT, 30, 4, 723-734, (1990).
- [634] Price, C.J. and Coope, I.D., *Numerical experiments in semi-infinite programming.*, Comput. Optim. Appl., 6, 2, 169-189, (1996).
- [635] R. Puente and V. Vera de Serio, *Locally Farkas-Minkowski Linear Semi-Infinite Systems*, Report, Universidad Nacional de Cuyo, Mendoza, Argentina, (1996).
- [636] Puente, R. and Vera de Serio, V., *Locally Farkas-Minkowski linerar semi-infinite systems*, TOP, 7, 103-121, (1999).
- [637] Qi, Liqun; Ling, Chen; Tong, Xiaojiao; Zhou, Guanglu, *A smoothing projected Newton-type algorithm for semi-infinite programming.* Comput. Optim. Appl. 42 (2009), no. 1, 1–30.
- [638] 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).
- [639] 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).

- [640] Rapoport, Eh.O., *Ueber lineare Aufgaben der Theorie der optimalen Prozesse*, (Russian) Mat. Programm., 106-111, (1966).
- [641] 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).
- [642] Rätsch, G., A. Demiriz, K.P. Bennet, *Sparse regression ensembles in infinite and finite hypothesis spaces*, Machine Learning 48, 189-218, (2002).
- [643] Reemtsen, R., *Discretization methods for the solution of semi-infinite programming problems.*, J. Optimization Theory Appl., 71, 1, 85-103, (1991)
- [644] Reemtsen, Rembert, *A cutting plane method for solving minimax problems in the complex plane.*, Numer. Algorithms 2, No.3/4, 409-436, (1992).
- [645] Reemtsen, Rembert, Some outer approximation methods for semi-infinite optimization problems., J. Comput. Appl. Math., 53, 1, 87-108, (1994).
- [646] 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).
- [647] Reemtsen, R.M. and Görner, S., *Numerical methods for semi-infinite programming: A survey*, in Semi-Infinite Programming, R.M. Reemtsen and J. Rückmann (eds.), 195-275, Kluwer Nonconvex Optim. Appl. 25, (1998).
- [648] Reemtsen R., Rückmann J.-J. (eds.) Semi-Infinite Programming, Kluwer, Boston, (1998).
- [649] A.P. Robertson and W.J. Robertson, Topological Vector Spaces, Cambridge University Press, Cambridge, (1973).
- [650] S.M. Robinson, *Stability theory for systems of inequalities. Part I: Linear systems*, SIAM Journal on Numerical Analysis, 12, 754-769, (1975).
- [651] S.M. Robinson, *A Characterization of Stability in Linear Programming*, Operations Research, 25, 435-447, (1977).
- [652] R.T. Rockafellar, Convex Analysis, Princeton University Press, Princeton New Jersey, (1970).
- [653] R.T. Rockafellar and R.J-B. Wets, Variational Analysis, Springer Verlag, New-York, (1998).
- [654] 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).
- [655] 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).
- [656] J.B. Rosen, *Pattern separation by convex programming*, Journal of Mathematical Analysis and Applications, 10, 123-134, (1965).
- [657] 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).
- [658] Rubinshtejn, G.Sh., *Kommentar zu der Arbeit von H. Voigt: "Ein Dualitaetssatz der semi-infiniten linearen Optimierung"*, (Russian) Math. Operationsforsch. Stat., Ser. Optimizatsiya, 12, 31-32, (1981).

- [659] Rubio, J.E., *The optimal control of nonlinear diffusion equations with rough initial data*, J. Franklin Inst. 337, 673-690, (2000).
- [660] Rubio, J.E., *Optimal control problems with unbounded constraint sets*, Optimization 48, 191-210, (2000).
- [661] Rudolph, H., *Zur Approximation infiniter linearer Optimalprobleme.*, Z. Angew. Math. Mech., 59, 486-487, (1979).
- [662] Rudolph, H., *Basisloesungen und Extrempunkte in der semiinfinitem linearen Optimierung.*, Seminarber., Humboldt-Univ. Berlin, Sekt. Math. 39, 176-184 (1981).
- [663] Rudolph, Helmut, *Der Simplexalgorithmus der semi-infinitem linearen Optimierung. (The simplex algorithm of semi-infinite linear optimization)*., Wiss. Z. Tech. Hochsch. Leuna-Merseburg 29(1987), No.6, 782-806, (1987).
- [664] 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. Leipzig., Math.-Naturwiss. Reihe 37, No.4, 318-325, (1988).
- [665] 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).
- [666] Rudolph, H., *The SILP-relaxation method in optimal control. I: General boundary conditions.*, Z. Anal. Anwend., 11, 1, 143-151, (1992).
- [667] Rudolph, H., *The SILP-relaxation method in optimal control: General boundary conditions. II.*, Z. Anal. Anwend., 11, 3, 431-436, (1992).
- [668] 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).
- [669] Rueckmann, Jan-J., *On existence and uniqueness of stationary points in semi-infinite optimization.*, Math. Program. 86A, No.2, 387-415, (1999).
- [670] Rueckmann, Jan-J.; Gómez, Juan Alfredo, *On generalized semi-infinite programming*. With discussions and a rejoinder by the authors. Top 14 (2006), no. 1, 1–59.
- [671] Rueckmann, J.J. and Shapiro, A., *First-order optimality conditions in generalized semi-infinite programming.*, J. Optimization Theory Appl., 101, 3, 677-691, (1999).
- [672] Rueckmann, J.J. and Shapiro, A., *Second-order optimality conditions in generalized semi-infinite programming.*, Set-Valued Analysis, 9, 191-186, (2001).
- [673] Rückmann, Jan-J.; Shapiro, Alexander, *Augmented Lagrangians in semi-infinite programming*. Math. Program. 116 (2009), no. 1-2, Ser. B, 499–512.
- [674] Rückmann, J.-J., and O. Stein, *On linear and linearized generalized semi-infinite optimization problems*, Ann. Oper. Res. 101, 191-208, (2001).
- [675] 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).
- [676] Rückmann, J.-J. and Weber, G.-W., *Semi-infinite optimization: Excisional stability of noncompact feasible sets*, Siberian Mathematical Journal, 39, 113-125, (1998).

- [677] 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).
- [678] Rupp Th., *Kuhn-Tucker curves for one-parametric semi-infinite programming*, Optimization 20, 61-77, (1989).
- [679] 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).
- [680] 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).
- [681] 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).
- [682] Sarges, Olaf, *Redundance of vertices of the cube relatively to its minimal ellipsoid.*, Beitr. Algebra Geom., 37, 1, 41-49, (1996)
- [683] 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).
- [684] Schaettler, Ulrich, *An interior-point-method for semi-infinite programming problems.*, Wuerzburg: Universitaet Wuerzburg, FB Mathematik, 44 p. (1992).
- [685] Schaettler, Ulrich, *An interior-point method for semi-infinite programming problems.*, Ann. Oper. Res., 62, 277-301, (1996).
- [686] Schittkowski, K., *Solving nonlinear programming problems with very many constraints.*, Optimization, 25, 2-3, 179-196, (1992).
- [687] Schochetman, I.E., *Pointwise versions of the maximum theorem with applications in optimization*, Applied Mathematics Letters, 3, 89-92, (1990).
- [688] Schochetman, I.E. and Smith, R.L., *Convergence of selections with applications in optimization.*, J. Math. Anal. Appl., 155, 1, 278-292, (1991).
- [689] Scott, C.H. and Jefferson, T.R., *Duality in infinite-dimensional mathematical programming: Convex integral functionals.*, J. Math. Anal. Appl., 61, 251-261, (1977).
- [690] Scott, C.H. and Jefferson, T.R., *Non-standard posynomial geometric programs.*, Int. J. Syst. Sci., 18, 1467-1474, (1987).
- [691] Shapiro, Alexander, *Extremal problems on the set of nonnegative definite matrices.*, Linear Algebra Appl., 67, 7-18, (1985).
- [692] Shapiro A., *Second order derivatives of extremal value functions and optimality conditions for semi-infinite programs*, Math. of Oper. Res. 10, 207-219, (1985).
- [693] Shapiro, Alexander, *On Lipschitzian stability of optimal solutions of parametrized semi-infinite programs.*, Math. Oper. Res., 19, 3, 743-752, (1994).
- [694] Shapiro, Alexander, *Sensitivity analysis of parametrized programs via generalized equations.*, SIAM J. Control Optimization, 32, 2, 553-571, (1994).
- [695] Shapiro, Alexander, *Directional differentiability of the optimal value function in convex semi-infinite programming.*, Math. Program. 70A, No.2, 149-157, (1995).

- [696] Shapiro, Alexander, *On uniqueness of Lagrange multipliers in optimization problems subject to cone constraints.*, SIAM J. Optim., 7, 2, 508-518, (1997).
- [697] 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).
- [698] Shapiro, Alexander, *On duality theory of convex semi-infinite programming.* Optimization 54 (2005), no. 6, 535–543.
- [699] Shapiro, Alexander, *Semi-infinite programming, duality, discretization and optimality conditions.* Optimization 58 (2009), no. 2, 133–161.
- [700] Shapiro, Alexander and Fan, Michael K.H., *On eigenvalue optimization.*, SIAM J. Optim., 5, 3, 552-569, (1995).
- [701] Shapiro, A., On duality theory of conic linear problems, in [243], 135-165, (2001).
- [702] 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).
- [703] Shaw, F.H. and Geyer, C.J., *Estimation and testing in constrained covariance component models*, Biometrika, 84, 95-102, (1997).
- [704] 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).
- [705] 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).
- [706] Shi, Guangyan and Ma, Xiaoxian, *An outer approximation algorithm for semi-infinite non-differentiable programmings.*, Appl. Math., J. Chin. Univ., 7, 1, 1-9, (1992).
- [707] Shibaev, S.V., *Maxmin subject to marginal constraints.*, Cybern. Syst. Anal., 30, 6, 875-884, (1994).
- [708] 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).
- [709] Soleimani-damaneh, M., *Infinite (semi-infinite) problems to characterize the optimality of nonlinear optimization problems.* European J. Oper. Res. 188 (2008), no. 1, 49–56.
- [710] Sommer, Rolf, *Finite-Element-Approximation und semi-infinite Optimierungsaufgaben.*, Seminarber., Humboldt-Univ. Berlin, Sekt. Math. 39, 210-224 (1981).
- [711] Sommer, Rolf, *Numerische Behandlung semi-infiniter Optimierungsaufgaben bei der approximativen Loesung elliptischer Randwertaufgaben.*, Wiss. Z. Tech. Hochsch. Karl-Marx-Stadt 23, 471-478, (1981).
- [712] 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).
- [713] 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).

- [714] Soyster A.L., *Convex programming with set-inclusive constraints and applications to inexact linear programming*, Operations research 21, 1154-1157, (1973).
- [715] Soyster A.L., *A semi-infinite game*, Management Science, 21, 806-812, (1975).
- [716] Staffans, O.J., *Mixed sensitivity minimization problems with rational ℓ^1 -optimal solutions.*, J. Optimization Theory Appl., 70, 1, 173-189, (1991).
- [717] 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).
- [718] Stein O., On parametric semi-infinite Optimization, Thesis, University Aachen, Shaker, (1997).
- [719] 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).
- [720] Stein O., *On level sets of marginal functions*, Optimization, 48, 43-67, (2000).
- [721] Stein O., *The feasible set in generalized semi-infinite programming*, in Lassonde M. (ed.), Approximation, Optimization and Mathematical Economics, Springer, 313-331, (2001).
- [722] Stein O., *First order optimality conditions for degenerate index sets in generalized semi-infinite programming*, Mathematics of Operations Research, 26, 565-582, (2001).
- [723] Stein O., Bilevel strategies in Semi-infinite Programming, Kluwer, Boston (2003).
- [724] Stein, Oliver, *On Karush-Kuhn-Tucker points for a smoothing method in semi-infinite optimization*. J. Comput. Math. 24 (2006), no. 6, 719–732.
- [725] Stein, Oliver, *A semi-infinite approach to design centering*. Optimization with multivalued mappings, 209–228, Springer Optim. Appl., 2, Springer, New York, 2006.
- [726] Stein O., Still G., *On optimality conditions for generalized semi-infinite programming problems*, Journal of Optimization Theory and Applications, Vol. 104, 443-458, (2000).
- [727] Stein O., Still G., *On generalized semi-infinite optimization and bilevel optimization*, Europ. J. of Operational Research 142, Issue 3, 444-462, (2002).
- [728] Stein O., Still G., *Solving semi-infinite optimization problems with interior point techniques*. SIAM J. Control Optim. 42, no. 3, 769–788, (2003).
- [729] Stein, Oliver; Tezel, Aysun, *The semismooth approach for semi-infinite programming under the reduction ansatz*. J. Global Optim. 41 (2008), no. 2, 245–266.
- [730] Still G., *Computable bounds for eigenvalues and eigenfunctions of elliptic differential operators*, Numer. Math. 54, 201-223, (1988).
- [731] Still G., *Generalized semi-infinite programming: Theory and methods*, European Journal of Operational Research 119, 301-313, (1999).
- [732] Still G., *Generalized semi-infinite programming: Numerical aspects*, Optimization 49, No. 3, 223-242, (2001).
- [733] Still G., *Discretization in semi-infinite programming: the rate of convergence*, Math. Program. 91, 1, Ser. A, 53–69, (2001).
- [734] Still G., *Optimization problems with infinitely many constraints*, Bul. Stiint. Univ. Baia Mare, Ser. B, Matematica-Informatica, Vol. XViii, Nr.2, 343-354, (2003).

- [735] Still G., *Approximation theory methods for solving elliptic eigenvalue problems*, Z. Angew. Math. Mech. 83, No. 7, 468-478, (2003).
- [736] Still G., *Solving generalized semi-infinite programs by reduction to simpler problems*. Optimization 53, no. 1, 19–38, (2004).
- [737] Still G., *Approximation and Optimization: Classical results and new developments*, Proceedings PARAOPT VII (Puebla 2002), Aportaciones Matematicas 18. 207-233, (2004).
- [738] 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).
- [739] Strauss H., *On semi-infinite optimization and Chebyshev approximation with constraints*, Numer. Funct. Anal. Optimiz. 8, 153-171, (1985).
- [740] Streit, Roy L., *An algorithm for the solution of systems of complex linear equations in the L_∞ norm with constraints on the unknowns.*, ACM Trans. Math. Softw., 11, 242-249, (1985).
- [741] 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).
- [742] Streit, Roy L. and Nuttall, Albert H., *A note on the semi-infinite programming approach to complex approximation.*, Math. Comput., 40, 599-605, (1983).
- [743] Sturm N., *semi-infinite Optimierung: Lösungsvorschlag mittels der Momentenmethode von Markov*, Schwarzenbek, (1978).
- [744] Tanaka, Yoshihiro, *Extensions of trust region methods to semi-infinite programming.*”, (Japanese) RIMS Kokyuroku, 945, 35-45, (1996).
- [745] 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).
- [746] 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).
- [747] 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).
- [748] 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).
- [749] 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).
- [750] Tichatschke, R., *Semi-infinite programming problems.*, Mathematical control theory, Banach Cent. Publ. 14, 543-554, (1985).
- [751] Tichatschke, Rainer, *Semi-infinite Optimierung - eine Uebersicht ueber Theorie, Lösungsverfahren und Anwendungen.*, (German) Mitteil. Math. Ges. DDR, 4, 20-34, (1986).

- [752] 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).
- [753] 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).
- [754] 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 finance*, Techn. Report, Universitt Trier, Mathematik/Informatik, Forschungsbericht Nr.00-05, (2000).
- [755] Tichatschke, Rainer and Lohse, Thomas, *Eine verallgemeinerte Schnittmethode fuer konvexe semi-infinite Optimierungsaufgaben.*, Wiss. Z. Tech. Hochsch. Karl-Marx-Stadt 24, 332-338, (1982).
- [756] Tichatschke, R. and Nebeling, V., *A cutting-plane method for quadratic semi-infinite programming problems.*, Optimization, 19, 6, 803-817, (1988).
- [757] 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),
- [758] Tichatschke, R. and Schwartz, B., *Methods of feasible directions for semi-infinite programming problems. I, II.*, Wiss. Inf. 33, 36 p. (1982).
- [759] 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).
- [760] Tijs S.H., *Semi-infinite linear programs and semi-infinite matrixgames*, Nieuw Arch. Wiskunde, 27, 197-214, (1979).
- [761] Tijs, S. and Timmer, J. and Llorca, N. and Sánchez-Soriano, J., *The Owen Set and the Core of Semi-Infinite Linear Production Situations*, in Semi-Infinite Programming. Recent Advances, Eds. Goberna, M.A. and López, M.A., Kluwer Verlag, (2001).
- [762] Todd, Michael J., *Interior-point algorithms for semi-infinite programming.*, Math. Program. 65A, No.2, 217-245, (1994).
- [763] 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).
- [764] Todorov, M.I., *Generic uniqueness of saddle points in the linear semi-infinite optimization.*, C. R. Acad. Bulg. Sci., 39, 4, 27-29, (1986).
- [765] Todorov, M.I., *Generic properties in the linear vector semi-infinite optimization.*, C. R. Acad. Bulg. Sci., 42, 4, 27-29, (1989).
- [766] Todorov, M.I., *Properties resembling well-posedness in the linear vector semi-infinite optimization.*, C. R. Acad. Bulg. Sci., 42, 9, 23-25, (1989).
- [767] Todorov, Maxim Iv., *Existence of solutions of linear vector semi-infinite optimization problems.*, Math. Balk., New Ser., 4, 4, 390-395, (1990).
- [768] 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).

- [769] 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).
- [770] Todorov, Maxim I., *Necessary and sufficient conditions for global lower semicontinuity in linear semi-infinite optimization.*, Numer. Funct. Anal. Optimization, 19, 3-4, 415-429, (1998).
- [771] Toledo, F. J., *Some results on Lipschitz properties of the optimal values in semi-infinite programming.* Optim. Methods Softw. 23 (2008), no. 5, 811-820.
- [772] Tong, Xiaojiao; Ling, Chen; Qi, Liqun, *A semi-infinite programming algorithm for solving optimal power flow with transient stability constraints.* J. Comput. Appl. Math. 217 (2008), no. 2, 432-447.
- [773] Trahan R., Polak E., *A derivative free algorithm for a class of infinitely constrained problems*, IEEE Trans. Automat. Control, AC-25, 554-61, (1980).
- [774] 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 Ukrayiny, 527-537 (1993).
- [775] Trudzik, L.I., *On optimality in abstract convex programming.*, Z. Oper. Res., Ser. A, 27, 1-16, (1983).
- [776] Trudzik, Leslie Ian, *Optimization in abstract spaces.*, Bull. Aust. Math. Soc., 29, 141-143, (1984).
- [777] 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).
- [778] 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).
- [779] H. Tuy, *Stability property of a system of inequalities*, Mathematische Operationsforschung und Statistik, Series Optimization, 8, 27-39, (1977).
- [780] Ugowski, Henryk, *Remarks on the ascent algorithm for the linear minimax problem.*, COMPEL, 8, 3, 181-184, (1989).
- [781] Valentine, F.A., *Visible shorelines*, American Mathematical Monthly, 77, 146-152, (1970).
- [782] 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).
- [783] 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).
- [784] Vanderbei, Robert J., *Affine-scaling trajectories associated with a semi-infinite linear program.*, Math. Oper. Res., 20, 1, 163-174, (1995).
- [785] 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).
- [786] 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).

- [787] Vaz, A. Ismael F.; Fernandes, Edite M. G. P.; Gomes, M. Paula S. F., *SIPAMPL: semi-infinite programming with AMPL*. ACM Trans. Math. Software 30 (2004), no. 1, 47–61.
- [788] Vaz, A. Ismael F.; Fernandes, Edite M. G. P.; Gomes, M. Paula S. F., *Robot trajectory planning with semi-infinite programming*. European J. Oper. Res. 153 (2004), no. 3, 607–617.
- [789] Vaz, A. Ismael F.; Ferreira, Eugénio C., *Air pollution control with semi-infinite programming*. Appl. Math. Model. 33 (2009), no. 4, 1957–1969.
- [790] Venkov, G.I. and Krushev, N.I., *Nondifferentiable design optimization problems with application to control engineering*, Optimization, 25, 1, 83-90, (1992).
- [791] Vercher, Enriqueta, *Portfolios with fuzzy returns: selection strategies based on semi-infinite programming*. J. Comput. Appl. Math. 217 (2008), no. 2, 381–393.
- [792] Voigt, H., em Ein Dualitaetssatz der semi-infiniten linearen Optimierung.”, Math. Operationsforsch. Stat., Ser. Optimization, 12, 27-30, (1981).
- [793] Voigt, H., *Semi-infinite transportation problems*, Zeitschrift fr Analysis und ihre Anwendungen, 17, 729-741, (1998).
- [794] Volkov, Y.V. and Zavriev, S.K., *A general stochastic outer approximations method*, SIAM J. Control Optimization, 35, 4, 1387-1421, (1997).
- [795] M. Volle, *Sous-différentiel d'une enveloppe supérieure de fonctions convexes*, C. R. Acad. Sci. Paris, "t. 317", I, 845-849, (1993).
- [796] 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).
- [797] 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).
- [798] Wang, Changyu; Zhou, Jinchuan; Xu, Xiuhua, *Saddle points theory of two classes of augmented Lagrangians and its applications to generalized semi-infinite programming*. Appl. Math. Optim. 59 (2009), no. 3, 413–434.
- [799] 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).
- [800] Watson, G.A., *Globally convergent methods for semi-infinite programming*., BIT, 21, 362-373, (1981).
- [801] 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).
- [802] 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).
- [803] Weber, Gerhard-Wilhelm, *Charakterisierung struktureller Stabilität 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).
- [804] Weber, G.-W., *Generalized semi-infinite optimization: On some foundations*., Vychisl. Tekhnol., 4, 3, 41-61, (1999).

- [805] Weber, G.-W., *Generalized Semi-Infinite Optimization and Related Topics*, Heldermann Verlag, Lemgo, Germany, 2003.
- [806] Weber, Gerhard-Wilhelm, *Generalized semi-infinite optimization: theory and applications in optimal control and discrete optimization. Generalized convexity, generalized monotonicity, optimality conditions and duality in scalar and vector optimization*. J. Stat. Manag. Syst. 5 (2002), no. 1-3, 359–388.
- [807] Weber, Gerhard-Wilhelm; Tezel, Aysun, *On generalized semi-infinite optimization of genetic networks*. TOP 15 (2007), no. 1, 65–77.
- [808] 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).
- [809] Weber, Reinhard, *Decision making under uncertainty: A semi-infinite programming approach.*, Eur. J. Oper. Res., 19, 104-113, (1985).
- [810] Weyl, H., *Elementare theorie der konvexen polyeder*, Commentarii Mathematici Helvetici, 7, 290-306, (1935).
- [811] 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).
- [812] 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).
- [813] Wetterling W., *Definitheitsbedingungen für relative Extrema bei Optimierungs- und Approximationsaufgaben*, Numer. Math. 15, 122-136, (1970).
- [814] A.C. Williams, *Marginal Values in Linear Programming*, SIAM Journal on Applied Mathematics, 11, 82-94, (1963).
- [815] Winterfeld, Anton, *Application of general semi-infinite programming to lapidary cutting problems*. European J. Oper. Res. 191 (2008), no. 3, 838–854.
- [816] 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).
- [817] Wu, S.Y., *The general capacity problem.*, Methods Oper. Res., 49, 329-344, (1985).
- [818] 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).
- [819] 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).
- [820] 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).
- [821] Yamasaki, Maretsugu, *Semi-infinite programs and conditional Gauss variational problems*, Hiroshima Mat. J. 1, 177-226, (1972).

- [822] Yamasaki, Maresugu, *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).
- [823] Yang, Hong-li; He, Guo-ping, *A new ACCPM algorithm for convex semi-infinite programming*, Math. Econ. 21, 3, 252–257, (2004).
- [824] Yang, Hong Li; He, Guo Ping, *A first-order necessary condition and a damp-Newton algorithm for semi-infinite programming problems*. (Chinese) Math. Practice Theory 38 (2008), no. 7, 117–122.
- [825] Yang, Xiaoqi, *Second-order conditions in $C^{1,1}$ optimization with applications.*, Numer. Funct. Anal. Optimization, 14, 5-6, 621-632, (1993).
- [826] 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).
- [827] Ye, J. J.; Wu, S. Y., *First order optimality conditions for generalized semi-infinite programming problems*. J. Optim. Theory Appl. 137 (2008), no. 2, 419–434.
- [828] Yi-gui, Ou., *A filter trust region method for solving semi-infinite programming problems*. J. Appl. Math. Comput. 29 (2009), no. 1-2, 311–324.
- [829] 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).
- [830] Zakovic, S., and B. Rustem, *Semi-infinite programming and applications to minimax problems*, Ann. Oper. Res. 124, 81-110, (2003).
- [831] Zaković, Stanislav; Rustem, Berc, *Semi-infinite programming and applications to minimax problems. Applied mathematical programming and modelling*, Ann. Oper. Res. 124, 81–110, (2003).
- [832] Zaković, S.; Rustem, B.; Asprey, S. P., *A parallel algorithm for semi-infinite programming*. Special issue in honour of Stan Azen: a birthday celebration. Comput. Statist. Data Anal. 44 (2003), no. 1-2, 377–390.
- [833] Zalinescu, C., *A note on d-stability of convex programs and limiting Lagrangians.*, Math. Program., Ser. A, 53, 3, 267-277, (1992).
- [834] Zalmai, G.J., *Optimality conditions and subgradient duality for minimax programming problems with applications.*, Util. Math., 34, 193-222, (1988).
- [835] Zalmai, G. J.; Zhang, Qinghong, *Global nonparametric sufficient optimality conditions for semi-infinite discrete minmax fractional programming problems containing generalized (α, β, ρ) -V-invex functions*. Adv. Math. Sci. Appl. 17 (2007), no. 2, 401–420.
- [836] Zalmai, G. J.; Zhang, Qing-hong, *Parametric duality models for semi-infinite discrete minmax fractional programming problems involving generalized (α, β, ρ) -invex functions*. Acta Math. Appl. Sin. Engl. Ser. 23 (2007), no. 3, 353–376.
- [837] Zalmai, G. J.; Zhang, Qinghong, *Nonparametric duality models for semi-infinite discrete minmax fractional programming problems involving generalized (α, β, ρ) -invex functions*. Numer. Funct. Anal. Optim. 28 (2007), no. 1-2, 211–243.

- [838] 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).
- [839] 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).
- [840] Zencke, P. and Hettich, R., *Directional derivatives for the value-function in semi-infinite programming.*, *Math. Program.*, 38, 323-340, (1987).
- [841] Zhang, Chang Wen, *Regularity of semi-infinite programming.* (Chinese) *Acta Math. Appl. Sin.* 31 (2008), no. 2, 284–289.
- [842] 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).
- [843] 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).
- [844] Zhang, Qingxiang, *Optimality conditions and duality for arcwise semi-finite programming with parametric inequality constraints.*, *J. Math. Anal. Appl.*, 196, 3, 998-1007, (1995).
- [845] 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).
- [846] 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).
- [847] Zhang, Qinghong, *Uniform LP duality for semidefinite and semi-infinite programming*. *CEJOR Cent. Eur. J. Oper. Res.* 16 (2008), no. 2, 205–213.
- [848] Zheng, Xi Yin; Yang, Xiaoqi, *Lagrange multipliers in nonsmooth semi-infinite optimization problems*. *Math. Oper. Res.* 32 (2007), no. 1, 168–181.
- [849] Zheng, Xi Yin; Yang, Xiao Qi, *Global weak sharp minima for convex (semi-)infinite optimization problems*. *J. Math. Anal. Appl.* 348 (2008), no. 2, 1021–1028.
- [850] 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).
- [851] 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).
- [852] 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).
- [853] Zhu, Baoliang, *Semi-infinite quadratic programming.*, (Chinese. English summary) *J. East China Norm. Univ., Nat. Sci. Ed.*, 4, 39-45, (1987).
- [854] Y.J. Zhu, *Generalizations of some fundamental theorems on linear inequalities*, *Acta Mathematica Sinica*, 16, 25-40, (1966).
- [855] Zlobec, S., *Stability in linear programming models: An index set approach*, *Annals of Operations Research*, 101, 363-382, (2001).

- [856] Zwick, D., *A special one-sided approximation problem.*, J. Approximation Theory, 62, 1, 70-93, (1990).
- [857] Zwier G., *Structural analysis in semi-infinite programming*, Thesis, University of Twente, (1987).