# Miguel A Goberna

List of Publications by Year
in descending order

| 120 papers | 1,636 citations | 361045 20 h-index | 395343 33 g-index |
|---|---|---|---|
| 125 all docs | 125 docs citations | 125 times ranked | 310 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | New Farkas-type constraint qualifications in convex infinite programming. ESAIM - Control, Optimisation and Calculus of Variations, 2007, 13, 580-597. | 0.7 | 101 |
| 2 | Stability Theory for Linear Inequality Systems. SIAM Journal on Matrix Analysis and Applications, 1996, 17, 730-743. | 0.7 | 78 |
| 3 | Robust solutions to multi-objective linear programs with uncertain data. European Journal of Operational Research, 2015, 242, 730-743. | 3.5 | 70 |
| 4 | Linear semi-infinite programming theory: An updated survey. European Journal of Operational Research, 2002, 143, 390-405. | 3.5 | 58 |
| 5 | Necessary and sufficient constraint qualifications for solvability of systems of infinite convex inequalities. Nonlinear Analysis: Theory, Methods & Applications, 2008, 68, 1184-1194. | 0.6 | 49 |
| 6 | Farkas-Minkowski systems in semi-infinite programming. Applied Mathematics and Optimization, 1981, 7, 295-308. | 0.8 | 46 |
| 7 | Stability Theory for Linear Inequality Systems II: Upper Semicontinuity of the Solution Set Mapping. SIAM Journal on Optimization, 1997, 7, 1138-1151. | 1.2 | 45 |
| 8 | Robust Solutions of MultiObjective Linear Semi-Infinite Programs under Constraint Data Uncertainty. SIAM Journal on Optimization, 2014, 24, 1402-1419. | 1.2 | 45 |
| 9 | Robust linear semi-infinite programming duality under uncertainty. Mathematical Programming, 2013, 139, 185-203. | 1.6 | 42 |
| 10 | Post-Optimal Analysis in Linear Semi-Infinite Optimization. SpringerBriefs in Optimization, 2014, , . | 0.3 | 35 |
| 11 | Topological stability of linear semi-infinite inequality systems. Journal of Optimization Theory and Applications, 1996, 89, 227-236. | 0.8 | 31 |
| 12 | On the Stability of the Boundary of the Feasible Set in Linear Optimization. Set-Valued and Variational Analysis, 2003, 11, 203-223. | 0.5 | 31 |
| 13 | Dual Characterizations of Set Containments with Strict Convex Inequalities. Journal of Global Optimization, 2006, 34, 33-54. | 1.1 | 30 |
| 14 | Motzkin decomposition of closed convex sets. Journal of Mathematical Analysis and Applications, 2010, 364, 209-221. | 0.5 | 30 |
| 15 | Sensitivity analysis in linear semi-infinite programming: Perturbing cost and right-hand-side coefficients. European Journal of Operational Research, 2007, 181, 1069-1085. | 3.5 | 29 |
| 16 | Recent contributions to linear semi-infinite optimization: an update. Annals of Operations Research, 2018, 271, 237-278. | 2.6 | 26 |
| 17 | Optimal value function in semi-infinite programming. Journal of Optimization Theory and Applications, 1988, 59, 261-279. | 0.8 | 25 |
| 18 | On linear systems containing strict inequalities. Linear Algebra and Its Applications, 2003, 360, 151-171. | 0.4 | 25 |

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|---|---------|-----|-----------|
| 19 | Optimality conditions in convex multiobjective SIP. Mathematical Programming, 2017, 164, 167-191. | 1.6 | 24 |
| 20 | Analyzing linear systems containing strict inequalities via evenly convex hulls. European Journal of Operational Research, 2006, 169, 1079-1095. | 3.5 | 23 |
| 21 | Constraint qualifications in convex vector semi-infinite optimization. European Journal of Operational Research, 2016, 249, 32-40. | 3.5 | 23 |
| 22 | On the Stability of the Feasible Set in Linear Optimization. Set-Valued and Variational Analysis, 2001, 9, 75-99. | 0.5 | 22 |
| 23 | Simplex-Like Trajectories on Quasi-Polyhedral Sets. Mathematics of Operations Research, 2001, 26, 147-162. | 0.8 | 21 |
| 24 | Penalty and Smoothing Methods for Convex Semi-Infinite Programming. Mathematics of Operations Research, 2009, 34, 303-319. | 0.8 | 21 |
| 25 | A theory of linear inequality systems. Linear Algebra and Its Applications, 1988, 106, 77-115. | 0.4 | 20 |
| 26 | Sensitivity Analysis in Linear Semi-Infinite Programming via Partitions. Mathematics of Operations Research, 2010, 35, 14-26. | 0.8 | 20 |
| 27 | Geometric fundamentals of the simplex method in semi-infinite programming. OR Spectrum, 1988, 10, 145-152. | 2.1 | 19 |
| 28 | Recent contributions to linear semi-infinite optimization. 4or, 2017, 15, 221-264. | 1.0 | 19 |
| 29 | Locally polyhedral linear inequality systems. Linear Algebra and Its Applications, 1998, 270, 231-253. | 0.4 | 18 |
| 30 | Linear Semi-infinite Optimization: Recent Advances. , 2005, , 3-22. | | 18 |
| 31 | A Unifying Approach to Robust Convex Infinite Optimization Duality. Journal of Optimization Theory and Applications, 2017, 174, 650-685. | 0.8 | 18 |
| 32 | On the stability of closed-convex-valued mappings and the associated boundaries. Journal of Mathematical Analysis and Applications, 2005, 306, 502-515. | 0.5 | 17 |
| 33 | On the Stability of the Feasible Set in Optimization Problems. SIAM Journal on Optimization, 2010, 20, 2254-2280. | 1.2 | 17 |
| 34 | Reduction and Discrete Approximation in Linear Semi-Infinite Programming. Optimization, 1987, 18, 643-658. | 1.0 | 15 |
| 35 | On Motzkin decomposable sets and functions. Journal of Mathematical Analysis and Applications, 2010, 372, 525-537. | 0.5 | 15 |
| 36 | Constraint qualifications in linear vector semi-infinite optimization. European Journal of Operational Research, 2013, 227, 12-21. | 3.5 | 15 |

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| 37 | Radius of robust feasibility formulas for classes of convex programs with uncertain polynomial constraints. Operations Research Letters, 2016, 44, 67-73. | 0.5 | 15 |
| 38 | Farkas-Type Results for Vector-Valued Functions with Applications. Journal of Optimization Theory and Applications, 2017, 173, 357-390. | 0.8 | 15 |
| 39 | Motzkin decomposition of closed convex sets via truncation. Journal of Mathematical Analysis and Applications, 2013, 400, 35-47. | 0.5 | 14 |
| 40 | From the Farkas Lemma to the Hahn--Banach Theorem. SIAM Journal on Optimization, 2014, 24, 678-701. | 1.2 | 14 |
| 41 | Guaranteeing highly robust weakly efficient solutions for uncertain multi-objective convex programs. European Journal of Operational Research, 2018, 270, 40-50. | 3.5 | 14 |
| 42 | Extended Active Constraints in Linear Optimization with Applications. SIAM Journal on Optimization, 2003, 14, 608-619. | 1.2 | 13 |
| 43 | On the Stability of the Extreme Point Set in Linear Optimization. SIAM Journal on Optimization, 2005, 15, 1155-1169. | 1.2 | 13 |
| 44 | Voronoi cells via linear inequality systems. Linear Algebra and Its Applications, 2012, 436, 2169-2186. | 0.4 | 13 |
| 45 | Lower Semicontinuity of the Feasible Set Mapping of Linear Systems Relative to Their Domains. Set-Valued and Variational Analysis, 2013, 21, 67-92. | 0.5 | 13 |
| 46 | New glimpses on convex infinite optimization duality. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2015, 109, 431-450. | 0.6 | 13 |
| 47 | A Generic Result in Linear Semi-Infinite Optimization. Applied Mathematics and Optimization, 2003, 48, 181-193. | 0.8 | 12 |
| 48 | On the stability of linear systems with an exact constraint set. Mathematical Methods of Operations Research, 2006, 63, 107-121. | 0.4 | 12 |
| 49 | Primal-dual stability in continuous linear optimization. Mathematical Programming, 2009, 116, 129-146. | 1.6 | 12 |
| 50 | On the Existence of Solutions for Linear Inequality Systems. Journal of Mathematical Analysis and Applications, 1995, 192, 133-150. | 0.5 | 11 |
| 51 | Generic primal-dual solvability in continuous linear semi-infinite programming. Optimization, 2008, 57, 239-248. | 1.0 | 11 |
| 52 | Convex Inequalities Without Constraint Qualification nor Closedness Condition, and Their Applications in Optimization. Set-Valued and Variational Analysis, 2010, 18, 423-445. | 0.5 | 11 |
| 53 | Unicity in linear optimization. Journal of Optimization Theory and Applications, 1995, 86, 37-56. | 0.8 | 10 |
| 54 | On the stability of Voronoi cells. Top, 2012, 20, 411-425. | 1.1 | 10 |

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| 55 | Comparative study of RPSALG algorithm for convex semi-infinite programming. Computational Optimization and Applications, 2015, 60, 59-87. | 0.9 | 10 |
| 56 | Robust optimization revisited via robust vector Farkas lemmas. Optimization, 2017, 66, 939-963. | 1.0 | 10 |
| 57 | New Farkas-Type Results for Vector-Valued Functions: A Non-abstract Approach. Journal of Optimization Theory and Applications, 2019, 182, 4-29. | 0.8 | 10 |
| 58 | Optimality theory for semi-infinite linear programmingâ—. Numerical Functional Analysis and Optimization, 1995, 16, 669-700. | 0.6 | 9 |
| 59 | Analytical Linear Inequality Systems and Optimization. Journal of Optimization Theory and Applications, 1999, 103, 95-119. | 0.8 | 9 |
| 60 | Primal, dual and primal-dual partitions in continuous linear optimization. Optimization, 2007, 56, 617-628. | 1.0 | 9 |
| 61 | Stability of the Feasible Set Mapping of Linear Systems with an Exact Constraint Set. Set-Valued and Variational Analysis, 2008, 16, 621-635. | 0.5 | 9 |
| 62 | On stable uniqueness in linear semi-infinite optimization. Journal of Global Optimization, 2012, 53, 347-361. | 1.1 | 9 |
| 63 | Even Convexity and Optimization. EURO Advanced Tutorials on Operational Research, 2020, , . | 0.6 | 9 |
| 64 | On the Stability of Convex-valued Mappings and Their Relative Boundary and Extreme Points Set Mappings. SIAM Journal on Optimization, 2006, 17, 147-158. | 1.2 | 8 |
| 65 | Stability in Linear Optimization Under Perturbations of the Left-Hand Side Coefficients. Set-Valued and Variational Analysis, 2015, 23, 737-758. | 0.5 | 8 |
| 66 | Convexity and closedness in stable robust duality. Optimization Letters, 2019, 13, 325-339. | 0.9 | 8 |
| 67 | Post-Optimal Analysis of Linear Semi-Infinite Programs. Springer Optimization and Its Applications, 2010, , 23-53. | 0.6 | 8 |
| 68 | Best Approximate Solutions of Inconsistent Linear Inequality Systems. Vietnam Journal of Mathematics, 2018, 46, 271-284. | 0.4 | 7 |
| 69 | Conditions for the Closedness of the Characteristic Cone Associated with an Infinite Linear System. Lecture Notes in Economics and Mathematical Systems, 1985, , 16-28. | 0.3 | 6 |
| 70 | Boundedness relations in linear semi-infinite programming. Advances in Applied Mathematics, 1987, 8, 53-68. | 0.4 | 6 |
| 71 | A Sup-Function Approach to Linear Semi-Infinite Optimization. Journal of Mathematical Sciences, 2003, 116, 3359-3368. | 0.1 | 6 |
| 72 | On the stable containment of two sets. Journal of Global Optimization, 2008, 41, 613-624. | 1.1 | 6 |

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| 73 | A comparative note on the relaxation algorithms for the linear semi-infinite feasibility problem. Annals of Operations Research, 2017, 258, 587-612. | 2.6 | 6 |
| 74 | Stability of the Duality Gap in Linear Optimization. Set-Valued and Variational Analysis, 2017, 25, 617-636. | 0.5 | 6 |
| 75 | Duality for the Robust Sum of Functions. Set-Valued and Variational Analysis, 2020, 28, 41-60. | 0.5 | 6 |
| 76 | A Comprehensive Survey of Linear Semi-Infinite Optimization Theory. Nonconvex Optimization and Its Applications, 1998, , 3-27. | 0.1 | 6 |
| 77 | Conditions for the uniqueness of the optimal solution in linear semi-infinite programming. Journal of Optimization Theory and Applications, 1992, 72, 225-246. | 0.8 | 5 |
| 78 | The Voronoi inverse mapping. Linear Algebra and Its Applications, 2016, 504, 248-271. | 0.4 | 5 |
| 79 | Asymptotic optimality conditions for linear semi-infinite programming. Optimization, 2016, 65, 387-414. | 1.0 | 5 |
| 80 | The radius of robust feasibility of uncertain mathematical programs: A Survey and recent developments. European Journal of Operational Research, 2022, 296, 749-763. | 3.5 | 5 |
| 81 | Redundancy in linear inequality system. Numerical Functional Analysis and Optimization, 1998, 19, 529-548. | 0.6 | 4 |
| 82 | Stability of the intersection of solution sets of semi-infinite systems. Journal of Computational and Applied Mathematics, 2008, 217, 420-431. | 1.1 | 4 |
| 83 | On farthest Voronoi cells. Linear Algebra and Its Applications, 2019, 583, 306-322. | 0.4 | 4 |
| 84 | Selected Applications of Linear Semi-Infinite Systems Theory. Vietnam Journal of Mathematics, 2020, 48, 439-470. | 0.4 | 4 |
| 85 | Duality for constrained robust sum optimization problems. Mathematical Programming, 2020, 189, 271. | 1.6 | 4 |
| 86 | Calculating Radius of Robust Feasibility of Uncertain Linear Conic Programs via Semi-definite Programs. Journal of Optimization Theory and Applications, 2021, 189, 597-622. | 0.8 | 4 |
| 87 | Dimension and finite reduction in linear semi-infinite programming. Optimization, 1992, 25, 143-160. | 1.0 | 3 |
| 88 | Saturation in Linear Optimization. Journal of Optimization Theory and Applications, 2003, 117, 327-348. | 0.8 | 3 |
| 89 | Separating the solution sets of analytical and polynomial systems. Top, 2005, 13, 321-329. | 1.1 | 3 |
| 90 | On Linear Inequality Systems with Smooth Coefficients. Journal of Optimization Theory and Applications, 2005, 124, 363-386. | 0.8 | 3 |

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| 91 | On Implicit Active Constraints in Linear Semi-Infinite Programs with Unbounded Coefficients. Applied Mathematics and Optimization, 2011, 63, 239-256. | 0.8 | 3 |
| 92 | Letter from the new Editors-in-Chief. Top, 2013, 21, 1-2. | 1.1 | 3 |
| 93 | Separation by Hyperplanes: A Linear Semi-Infinite Programming Approach. Nonconvex Optimization and Its Applications, 2001, , 255-269. | 0.1 | 3 |
| 94 | Duality for convex infinite optimization on linear spaces. Optimization Letters, 2022, 16, 2501-2510. | 0.9 | 3 |
| 95 | On Haar's dual problem. OR Spectrum, 1996, 18, 209-217. | 2.1 | 2 |
| 96 | On Duality in Semi-Infinite Programming and Existence Theorems for Linear Inequalities. Journal of Mathematical Analysis and Applications, 1999, 230, 173-192. | 0.5 | 2 |
| 97 | Primalâ€"Dual Optimization Conditions for the Robust Sum of Functions with Applications. Applied Mathematics and Optimization, 2019, 80, 643-664. | 0.8 | 2 |
| 98 | Characterizations of Robust and Stable Duality for Linearly Perturbed Uncertain Optimization Problems. Springer Proceedings in Mathematics and Statistics, 2020, , 43-74. | 0.1 | 2 |
| 99 | Representacion finita de sistemas de infinitas inecuaciones. Trabajos De EstadÃstica Y De InvestigaciÃ³n Operativa, 1982, 33, 3-26. | 0.1 | 1 |
| 100 | An overview of semi-infinite programming theory and related topics through a generalization of the alternative theorems. Trabajos De EstadÃstica Y De InvestigaciÃ³n Operativa, 1984, 35, 32-47. | 0.1 | 1 |
| 101 | Directional End of a Convex Set: Theory and Applications. Journal of Optimization Theory and Applications, 2001, 110, 389-411. | 0.8 | 1 |
| 102 | Uniform saturation in linear inequality systems. Top, 2005, 13, 167-184. | 1.1 | 1 |
| 103 | Excess information in parametric linear optimization. Optimization, 2006, 55, 555-568. | 1.0 | 1 |
| 104 | On the Stability of the Motzkin Representation of Closed Convex Sets. Set-Valued and Variational Analysis, 2013, 21, 635-647. | 0.5 | 1 |
| 105 | Los Teoremas de Alternativa y su relacion con la Teoria de Juegos y las propiedades topologico-algebraicas de Rn. Trabajos De EstadÃstica Y De InvestigaciÃ³n Operativa, 1976, 27, 77-88. | 0.1 | 0 |
| 106 | Condiciones suficientes para la existencia de solucion optima en un programa semi-infinito. Trabajos De EstadÃstica Y De InvestigaciÃ³n Operativa, 1983, 34, 3-20. | 0.1 | 0 |
| 107 | Dualidad de Haar y problemas de momentos. Trabajos De Investigacion Operativa, 1986, 1, 105-114. | 0.1 | 0 |
| 108 | A note about linear inequality systems and duality. Zeitschrift Fuer Operations-Research, Serie B: Praxis, 1987, 31, A71-A78. | 0.3 | 0 |

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| 109 | Comments on: Stability in linear optimization and related topics. A personal tour. Top, 2012, 20, 245-249. | 1.1 | 0 |
| 110 | A note on primal-dual stability in infinite linear programming. Optimization Letters, 2020, 14, 2247-2263. | 0.9 | 0 |
| 111 | Modeling Uncertain Linear Semi-infinite Optimization Problems. SpringerBriefs in Optimization, 2014, , 23-37. | 0.3 | 0 |
| 112 | Preliminaries on Linear Semi-infinite Optimization. SpringerBriefs in Optimization, 2014, , 1-22. | 0.3 | 0 |
| 113 | Qualitative Stability Analysis. SpringerBriefs in Optimization, 2014, , 61-77. | 0.3 | 0 |
| 114 | Robust Linear Semi-infinite Optimization. SpringerBriefs in Optimization, 2014, , 39-49. | 0.3 | 0 |
| 115 | Quantitative Stability Analysis. SpringerBriefs in Optimization, 2014, , 79-107. | 0.3 | 0 |
| 116 | The LFM Data Qualification in Convex Multiobjective Semi-infinite Programming. Studies in Systems, Decision and Control, 2018, , 845-854. | 0.8 | 0 |
| 117 | Evenly Convex Sets: Linear Systems Containing Strict Inequalities. EURO Advanced Tutorials on Operational Research, 2020, , 1-60. | 0.6 | 0 |
| 118 | Evenly Convex Functions. EURO Advanced Tutorials on Operational Research, 2020, , 123-167. | 0.6 | 0 |
| 119 | Evenly Convex Polyhedra: Finite Linear Systems Containing Strict Inequalities. EURO Advanced Tutorials on Operational Research, 2020, , 61-99. | 0.6 | 0 |
| 120 | Reducción de programas semiinfinitos a programas finitos. Publicacions Matematiques, 1980, 22, 265-269. | 0.2 | 0 |