

Martin Gugat

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

1,312
citations

20
h-index

31
g-index

110
ext. papers

1,504
ext. citations

1.3
avg, IF

5.1
L-index

| # | Paper | IF | Citations |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 102 | On the turnpike property with interior decay for optimal control problems. <i>Mathematics of Control, Signals, and Systems</i> , 2021 , 33, 237-258 | 1.3 | 0 |
| 101 | The Finite-Time Turnpike Phenomenon for Optimal Control Problems: Stabilization by Non-smooth Tracking Terms. <i>SEMA SIMAI Springer Series</i> , 2021 , 17-41 | 0.2 | 0 |
| 100 | Exponential Stability for the Schlägl System by Pyragas Feedback. <i>Vietnam Journal of Mathematics</i> , 2020 , 48, 769-790 | 0.5 | 1 |
| 99 | A New Model for Transient Flow in Gas Transportation Networks. <i>Industrial and Applied Mathematics</i> , 2020 , 147-156 | 0.3 | |
| 98 | Closed loop control of gas flow in a pipe: stability for a transient model. <i>Automatisierungstechnik</i> , 2020 , 68, 1001-1010 | 0.8 | 0 |
| 97 | Joint Model of Probabilistic-Robust (Proburst) Constraints Applied to Gas Network Optimization. <i>Vietnam Journal of Mathematics</i> , 2020 , 49, 1097 | 0.5 | 2 |
| 96 | Optimal Neumann Boundary Control of a Vibrating String with Uncertain Initial Data and Probabilistic Terminal Constraints. <i>SIAM Journal on Control and Optimization</i> , 2020 , 58, 2288-2311 | 1.9 | 5 |
| 95 | On the limits of stabilizability for networks of strings. <i>Systems and Control Letters</i> , 2019 , 131, 104494 | 2.4 | 5 |
| 94 | On the Turnpike Phenomenon for Optimal Boundary Control Problems with Hyperbolic Systems. <i>SIAM Journal on Control and Optimization</i> , 2019 , 57, 264-289 | 1.9 | 18 |
| 93 | Boundary Feedback Stabilization of the Isothermal Euler Equations with Uncertain Boundary Data. <i>SIAM Journal on Control and Optimization</i> , 2018 , 56, 1491-1507 | 1.9 | 4 |
| 92 | Lipschitz solutions of initial boundary value problems for balance laws. <i>Mathematical Models and Methods in Applied Sciences</i> , 2018 , 28, 921-951 | 3.5 | 2 |
| 91 | MIP-based instantaneous control of mixed-integer PDE-constrained gas transport problems. <i>Computational Optimization and Applications</i> , 2018 , 70, 267-294 | 1.4 | 25 |
| 90 | Towards simulation based mixed-integer optimization with differential equations. <i>Networks</i> , 2018 , 72, 60-83 | 1.6 | 9 |
| 89 | Networks of pipelines for gas with nonconstant compressibility factor: stationary states. <i>Computational and Applied Mathematics</i> , 2018 , 37, 1066-1097 | | 8 |
| 88 | Transient Flow in Gas Networks: Traveling waves. <i>International Journal of Applied Mathematics and Computer Science</i> , 2018 , 28, 341-348 | 1.7 | 4 |
| 87 | On the Relaxation Approximation for (2times 2) Hyperbolic Balance Laws. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018 , 651-663 | 0.2 | |
| 86 | Dynamic boundary control games with networks of strings. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2018 , 24, 1789-1813 | 1 | 2 |

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| 85 | Stationary Gas Networks with Compressor Control and Random Loads: Optimization with Probabilistic Constraints. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-17 | 1.1 | 3 |
| 84 | Boundary stabilization of quasilinear hyperbolic systems of balance laws: exponential decay for small source terms. <i>Journal of Evolution Equations</i> , 2018 , 18, 1471-1500 | 1.2 | 9 |
| 83 | Lipschitz continuity of the value function in mixed-integer optimal control problems. <i>Mathematics of Control, Signals, and Systems</i> , 2017 , 29, 1 | 1.3 | 4 |
| 82 | The isothermal Euler equations for ideal gas with source term: Product solutions, flow reversal and no blow up. <i>Journal of Mathematical Analysis and Applications</i> , 2017 , 454, 439-452 | 1.1 | 11 |
| 81 | Time Delay in Optimal Control Loops for Wave Equations. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2017 , 23, 13-37 | 1 | 1 |
| 80 | Neumann boundary feedback stabilization for a nonlinear wave equation: A strict H^2 -Lyapunov function. <i>Mathematical Control and Related Fields</i> , 2017 , 7, 419-448 | 1.5 | 13 |
| 79 | Coupling conditions for the transition from supersonic to subsonic fluid states. <i>Networks and Heterogeneous Media</i> , 2017 , 12, 371-380 | 1.6 | 4 |
| 78 | Exact penalization of terminal constraints for optimal control problems. <i>Optimal Control Applications and Methods</i> , 2016 , 37, 1329-1354 | 1.7 | 8 |
| 77 | Optimal Neumann control for the 1D wave equation: Finite horizon, infinite horizon, boundary tracking terms and the turnpike property. <i>Systems and Control Letters</i> , 2016 , 90, 61-70 | 2.4 | 31 |
| 76 | Exact Boundary Controllability for Free Traffic Flow with Lipschitz Continuous State. <i>Mathematical Problems in Engineering</i> , 2016 , 2016, 1-11 | 1.1 | 4 |
| 75 | Exponential Stabilization of the Wave Equation by Dirichlet Integral Feedback. <i>SIAM Journal on Control and Optimization</i> , 2015 , 53, 526-546 | 1.9 | 5 |
| 74 | Optimal Boundary Control and Boundary Stabilization of Hyperbolic Systems. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2015 , | 0.4 | 10 |
| 73 | Boundary Stabilization. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2015 , 69-87 | 0.4 | |
| 72 | Exact Controllability. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2015 , 29-46 | 0.4 | |
| 71 | Boundary feedback stabilization of the Schrödinger system. <i>Automatica</i> , 2015 , 51, 192-199 | 5.7 | 13 |
| 70 | Norm-minimal Neumann boundary control of the wave equation. <i>Arabian Journal of Mathematics</i> , 2015 , 4, 41-58 | 0.8 | 5 |
| 69 | Stationary states in gas networks. <i>Networks and Heterogeneous Media</i> , 2015 , 10, 295-320 | 1.6 | 26 |
| 68 | Analysis of a system of nonlocal conservation laws for multi-commodity flow on networks. <i>Networks and Heterogeneous Media</i> , 2015 , 10, 749-785 | 1.6 | 18 |

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| 67 | Optimal Exact Control. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2015 , 47-67 | 0.4 | |
| 66 | Systems governed by the wave equation. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2015 , 3-28 | 0.4 | |
| 65 | Nonlinear Systems. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2015 , 89-125 | 0.4 | |
| 64 | Boundary feedback stabilization of the telegraph equation: Decay rates for vanishing damping term. <i>Systems and Control Letters</i> , 2014 , 66, 72-84 | 2.4 | 19 |
| 63 | The sensitivity of optimal states to time delay. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 775-776 | 0.2 | 5 |
| 62 | Stabilization of Networked Hyperbolic Systems with Boundary Feedback. <i>International Series of Numerical Mathematics</i> , 2014 , 487-504 | 0.4 | 6 |
| 61 | Infinite Penalization for Optimal Control Problems: An infinite-dimensional optimization method for constrained optimization problems. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2013 , 13, 587-588 | 0.2 | 1 |
| 60 | Efficient Numerical Evaluation of Semianalytical Models for Squeeze Film Damping for Torsion Mirrors. <i>Journal of Nanomechanics & Micromechanics</i> , 2013 , 3, 06013001 | | 1 |
| 59 | A smoothed penalty iteration for state constrained optimal control problems for partial differential equations. <i>Optimization</i> , 2013 , 62, 379-395 | 1.2 | 3 |
| 58 | A note on the approximation of Dirichlet boundary control problems for the wave equation on curved domains. <i>Applicable Analysis</i> , 2013 , 92, 2200-2214 | 0.8 | 6 |
| 57 | Stabilization of the Gas Flow in Star-Shaped Networks by Feedback Controls with Varying Delay. <i>International Federation for Information Processing</i> , 2013 , 255-265 | | 5 |
| 56 | Feedback stabilization of quasilinear hyperbolic systems with varying delays 2012 , | | 1 |
| 55 | Closed Form Representations of Some Series in Darling's Model for Squeeze Film Damping with a Rectangular Plate. <i>Applied Sciences (Switzerland)</i> , 2012 , 2, 479-484 | 2.6 | 1 |
| 54 | H ² -stabilization of the Isothermal Euler equations: a Lyapunov function approach. <i>Chinese Annals of Mathematics Series B</i> , 2012 , 33, 479-500 | 0.4 | 20 |
| 53 | Contamination Source Determination in Water Distribution Networks. <i>SIAM Journal on Applied Mathematics</i> , 2012 , 72, 1772-1791 | 1.8 | 15 |
| 52 | On the relaxation approximation of boundary control of the isothermal Euler equations. <i>International Journal of Control</i> , 2012 , 85, 1766-1778 | 1.5 | 4 |
| 51 | Well-posedness of Networked Hyperbolic Systems of Balance Laws. <i>International Series of Numerical Mathematics</i> , 2012 , 123-146 | 0.4 | 13 |
| 50 | Gas Flow in Fan-Shaped Networks: Classical Solutions and Feedback Stabilization. <i>SIAM Journal on Control and Optimization</i> , 2011 , 49, 2101-2117 | 1.9 | 56 |

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| 49 | Optimal boundary control of the wave equation with pointwise control constraints. <i>Computational Optimization and Applications</i> , 2011 , 49, 123-147 | 1.4 | 8 |
| 48 | Flow control in gas networks: Exact controllability to a given demand. <i>Mathematical Methods in the Applied Sciences</i> , 2011 , 34, 745-757 | 2.3 | 42 |
| 47 | An example for the switching delay feedback stabilization of an infinite dimensional system: The boundary stabilization of a string. <i>Systems and Control Letters</i> , 2011 , 60, 226-233 | 2.4 | 20 |
| 46 | Existence of classical solutions and feedback stabilization for the flow in gas networks. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2011 , 17, 28-51 | 1 | 71 |
| 45 | Time-delayed boundary feedback stabilization of the isothermal Euler equations with friction. <i>Mathematical Control and Related Fields</i> , 2011 , 1, 469-491 | 1.5 | 27 |
| 44 | A strict H^1 -Lyapunov function and feedback stabilization for the isothermal Euler equations with friction. <i>Numerical Algebra, Control and Optimization</i> , 2011 , 1, 225-244 | 1.7 | 14 |
| 43 | The smoothed-penalty algorithm for state constrained optimal control problems for partial differential equations. <i>Optimization Methods and Software</i> , 2010 , 25, 573-599 | 1.3 | 13 |
| 42 | Approximation of Semigroups and Related Operator Functions by Resolvent Series. <i>SIAM Journal on Numerical Analysis</i> , 2010 , 48, 1826-1845 | 2.4 | 10 |
| 41 | Penalty Techniques for State Constrained Optimal Control Problems with the Wave Equation. <i>SIAM Journal on Control and Optimization</i> , 2010 , 48, 3026-3051 | 1.9 | 20 |
| 40 | Stabilizing a vibrating string by time delay 2010 , | | 9 |
| 39 | Boundary feedback stabilization by time delay for one-dimensional wave equations. <i>IMA Journal of Mathematical Control and Information</i> , 2010 , 27, 189-203 | 1.1 | 37 |
| 38 | Stars of vibrating strings: Switching boundary feedback stabilization. <i>Networks and Heterogeneous Media</i> , 2010 , 5, 299-314 | 1.6 | 30 |
| 37 | Classical solutions and feedback stabilization for the gas flow in a sequence of pipes. <i>Networks and Heterogeneous Media</i> , 2010 , 5, 691-709 | 1.6 | 59 |
| 36 | Optimal distributed control of the wave equation subject to state constraints. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2009 , 89, 420-444 | 1 | 15 |
| 35 | Global boundary controllability of the Saint-Venant system for sloped canals with friction. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2009 , 26, 257-270 | 1.6 | 32 |
| 34 | Laurentiev Prox-regularization Methods for Optimal Control Problems with Pointwise State Constraints. <i>International Series of Numerical Mathematics</i> , 2009 , 139-153 | 0.4 | 1 |
| 33 | L^∞ minimal control of the wave equation: on the weakness of the bang-bang principle. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2008 , 14, 254-283 | 1 | 30 |
| 32 | Optimal switching boundary control of a string to rest in finite time. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2008 , 88, 283-305 | 1 | 25 |

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| 31 | Weber problems with mixed distances and regional demand. <i>Mathematical Methods of Operations Research</i> , 2007 , 66, 419-449 | 1 | 13 |
| 30 | Optimal Boundary Control in Flood Management. <i>International Series of Numerical Mathematics</i> , 2007 , 69-94 | 0.4 | |
| 29 | Optimal boundary feedback stabilization of a string with moving boundary. <i>IMA Journal of Mathematical Control and Information</i> , 2007 , 25, 111-121 | 1.1 | 18 |
| 28 | Optimal Energy Control in Finite Time by varying the Length of the String. <i>SIAM Journal on Control and Optimization</i> , 2007 , 46, 1705-1725 | 1.9 | 14 |
| 27 | Optimal boundary control of a string to rest in finite time with continuous state. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2006 , 86, 134-150 | 1 | 13 |
| 26 | Conservation law constrained optimization based upon Front-Tracking. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2006 , 40, 939-960 | 1.8 | 7 |
| 25 | L^1 Optimal Boundary Control of a String to Rest in Finite Time 2006 , 149-162 | | 1 |
| 24 | L^p -Optimal Boundary Control for the Wave Equation. <i>SIAM Journal on Control and Optimization</i> , 2005 , 44, 49-74 | 1.9 | 32 |
| 23 | Optimal Control for Traffic Flow Networks. <i>Journal of Optimization Theory and Applications</i> , 2005 , 126, 589-616 | 1.6 | 86 |
| 22 | Nodal Control of Conservation Laws On Networks. <i>Lecture Notes in Pure and Applied Mathematics</i> , 2005 , 201-215 | | 4 |
| 21 | Global controllability between steady supercritical flows in channel networks. <i>Mathematical Methods in the Applied Sciences</i> , 2004 , 27, 781-802 | 2.3 | 37 |
| 20 | Global boundary controllability of the de Saint-Venant equations between steady states. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2003 , 20, 1-11 | 1.6 | 64 |
| 19 | Boundary Controllability between Sub- and Supercritical Flow. <i>SIAM Journal on Control and Optimization</i> , 2003 , 42, 1056-1070 | 1.9 | 15 |
| 18 | Regularization of L^1 Optimal Control Problems for Distributed Parameter Systems. <i>Computational Optimization and Applications</i> , 2002 , 22, 151-192 | 1.4 | 9 |
| 17 | Analytic Solutions of L^1 Optimal Control Problems for the Wave Equation. <i>Journal of Optimization Theory and Applications</i> , 2002 , 114, 397-421 | 1.6 | 20 |
| 16 | Controllability of a slowly rotating Timoshenko beam. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2001 , 6, 333-360 | 1 | 15 |
| 15 | Modelling, Stabilization, and Control of Flow in Networks of Open Channels 2001 , 251-270 | | 15 |
| 14 | A Newton method for the computation of time-optimal boundary controls of one-dimensional vibrating systems. <i>Journal of Computational and Applied Mathematics</i> , 2000 , 114, 103-119 | 2.4 | 7 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 13 | Error bounds for infinite systems of convex inequalities without Slater's condition. <i>Mathematical Programming</i> , 2000 , 88, 255-275 | 2.1 | 4 |
| 12 | Convex Semi-Infinite Parametric Programming: Uniform Convergence of the Optimal Value Functions of Discretized Problems. <i>Journal of Optimization Theory and Applications</i> , 1999 , 101, 191-201 | 1.6 | 2 |
| 11 | A parametric view on the Mangasarian-Horn constraint qualification. <i>Mathematical Programming</i> , 1999 , 85, 643-653 | 2.1 | 3 |
| 10 | Prox-Regularization Methods for Generalized Fractional Programming. <i>Journal of Optimization Theory and Applications</i> , 1998 , 99, 691-722 | 1.6 | 17 |
| 9 | Semi-infinite terminal problems: a newton type method. <i>Optimization</i> , 1998 , 44, 25-48 | 1.2 | 2 |
| 8 | Parametric Disjunctive Programming: One-Sided Differentiability of the Value Function. <i>Journal of Optimization Theory and Applications</i> , 1997 , 92, 285-310 | 1.6 | 6 |
| 7 | A Fast Algorithm for a Class of Generalized Fractional Programs. <i>Management Science</i> , 1996 , 42, 1493-1499 | 1.9 | 21 |
| 6 | The Newton differential correction algorithm for rational Chebyshev approximation with constrained denominators. <i>Numerical Algorithms</i> , 1996 , 13, 107-122 | 2.1 | 4 |
| 5 | One-sided derivatives for the value function in convex parametric programming. <i>Optimization</i> , 1994 , 28, 301-314 | 1.2 | 9 |
| 4 | Nonlinear elasticity: existence theory under subdifferential constraints. <i>Applicable Analysis</i> , 1993 , 49, 93-99 | 0.8 | |
| 3 | Optimization under functional constraints (semi-infinite programming) and applications. <i>Lecture Notes in Economics and Mathematical Systems</i> , 1992 , 90-126 | 0.4 | |
| 2 | Probabilistic constrained optimization on flow networks. <i>Optimization and Engineering</i> , 1 | 2.1 | 1 |
| 1 | Transient gas pipeline flow: analytical examples, numerical simulation and a comparison to the quasi-static approach. <i>Optimization and Engineering</i> , 1 | 2.1 | |