

Mario Sigalotti

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6708454/mario-sigalotti-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

66

papers

763

citations

17

h-index

25

g-index

72

ext. papers

981

ext. citations

2.1

avg, IF

4.44

L-index

#	Paper	IF	Citations
66	Adaptive control of Lipschitz time-delay systems by sigma modification with application to neuronal population dynamics. <i>Systems and Control Letters</i> , 2022 , 159, 105082	2.4	0
65	Effective adiabatic control of a decoupled Hamiltonian obtained by rotating wave approximation. <i>Automatica</i> , 2022 , 136, 110034	5.7	1
64	Ensemble qubit controllability with a single control via adiabatic and rotating wave approximations. <i>Journal of Differential Equations</i> , 2022 , 318, 414-442	2.1	1
63	An obstruction to small-time controllability of the bilinear Schrödinger equation. <i>Journal of Mathematical Physics</i> , 2021 , 62, 032103	1.2	0
62	On the gap between deterministic and probabilistic joint spectral radii for discrete-time linear systems. <i>Linear Algebra and Its Applications</i> , 2021 , 613, 24-45	0.9	1
61	Switching systems with dwell time: Computing the maximal Lyapunov exponent. <i>Nonlinear Analysis: Hybrid Systems</i> , 2021 , 40, 101021	4.5	2
60	Classical and Quantum Controllability of a Rotating Symmetric Molecule. <i>SIAM Journal on Control and Optimization</i> , 2021 , 59, 156-184	1.9	3
59	Lyapunov characterization of uniform exponential stability for nonlinear infinite-dimensional systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	1
58	Introduction to the Pontryagin Maximum Principle for Quantum Optimal Control. <i>PRX Quantum</i> , 2021 , 2,	6.1	11
57	Approximately controllable finite-dimensional bilinear systems are controllable. <i>Systems and Control Letters</i> , 2021 , 157, 105028	2.4	1
56	Fuller Singularities for Generic Control-Affine Systems with an Even Number of Controls. <i>SIAM Journal on Control and Optimization</i> , 2020 , 58, 1207-1228	1.9	2
55	Bounds on time-optimal concatenations of arcs for two-input driftless 3D systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 6863-6868	0.7	
54	Semi-conical eigenvalue intersections and the ensemble controllability problem for quantum systems. <i>Mathematical Control and Related Fields</i> , 2020 , 10, 877-911	1.5	2
53	Reachable sets for a 3D accidentally symmetric molecule. <i>IFAC-PapersOnLine</i> , 2020 , 53, 1943-1948	0.7	1
52	Counterexample to a Lyapunov Condition for Uniform Asymptotic Partial Stability 2020 , 4, 397-401		3
51	Dwell-time control sets and applications to the stability analysis of linear switched systems. <i>Journal of Differential Equations</i> , 2020 , 268, 1345-1378	2.1	2
50	On the regularity of abnormal minimizers for rank 2 sub-Riemannian structures. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2020 , 133, 118-138	1.7	27

49	Time-optimal trajectories of generic control-affine systems have at worst iterated Fuller singularities. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2019 , 36, 327-346	1.6	4
48	Stability of Interconnected Uncertain Delay Systems: A Converse Lyapunov Approach. <i>Advances in Delays and Dynamics</i> , 2019 , 49-63	0.3	4
47	Converse Lyapunov theorems for infinite-dimensional nonlinear switching systems 2019 ,		1
46	On the compatibility between the adiabatic and the rotating wave approximations in quantum control 2019 ,		1
45	On the Whitney extension property for continuously differentiable horizontal curves in sub-Riemannian manifolds. <i>Calculus of Variations and Partial Differential Equations</i> , 2018 , 57, 1	1.5	1
44	Exact Controllability in Projections of the Bilinear Schrödinger Equation. <i>SIAM Journal on Control and Optimization</i> , 2018 , 56, 2901-2920	1.9	5
43	Adiabatic Ensemble Control of a Continuum of Quantum Systems. <i>SIAM Journal on Control and Optimization</i> , 2018 , 56, 4045-4068	1.9	14
42	A Characterization of Switched Linear Control Systems With Finite L_2 -Gain. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 1825-1837	5.9	3
41	Sub-Finsler Structures from the Time-Optimal Control Viewpoint for some Nilpotent Distributions. <i>Journal of Dynamical and Control Systems</i> , 2017 , 23, 547-575	1.1	13
40	Pliability, or the Whitney extension theorem for curves in Carnot groups. <i>Analysis and PDE</i> , 2017 , 10, 1637-1661	1.7	4
39	Controllability in projection of the simple spectrum bilinear Schrödinger equation. <i>IFAC-PapersOnLine</i> , 2017 , 50, 5592-5597	0.7	1
38	A note on time-zero controllability and density of orbits for quantum systems 2017 ,		2
37	Persistently damped transport on a network of circles. <i>Transactions of the American Mathematical Society</i> , 2016 , 369, 3841-3881	1	4
36	Generic singularities of line fields on 2D manifolds. <i>Differential Geometry and Its Applications</i> , 2016 , 49, 326-350	0.5	3
35	Approximate Controllability, Exact Controllability, and Conical Eigenvalue Intersections for Quantum Mechanical Systems. <i>Communications in Mathematical Physics</i> , 2015 , 333, 1225-1239	2	29
34	Approximate controllability of the two trapped ions system. <i>Quantum Information Processing</i> , 2015 , 14, 2397-2418	1.6	4
33	On the control of spin-boson systems. <i>Journal of Mathematical Physics</i> , 2015 , 56, 092101	1.2	6
32	New high order sufficient conditions for configuration tracking. <i>Automatica</i> , 2015 , 62, 222-226	5.7	

31	Converse Lyapunov-Krasovskii theorems for uncertain retarded differential equations. <i>Automatica</i> , 2015 , 62, 263-273	5.7	9
30	Further remarks on Markus-Yamabe instability for time-varying delay differential equations. <i>IFAC-PapersOnLine</i> , 2015 , 48, 33-38	0.7	3
29	Growth rates for persistently excited linear systems. <i>Mathematics of Control, Signals, and Systems</i> , 2014 , 26, 589-616	1.3	2
28	On the Controllability of Quantum Transport in an Electronic Nanostructure. <i>SIAM Journal on Applied Mathematics</i> , 2014 , 74, 1870-1894	1.8	5
27	Multi-input Schrödinger equation: Controllability, tracking, and application to the quantum angular momentum. <i>Journal of Differential Equations</i> , 2014 , 256, 3524-3551	2.1	26
26	Stabilization of Two-Dimensional Persistently Excited Linear Control Systems with Arbitrary Rate of Convergence. <i>SIAM Journal on Control and Optimization</i> , 2013 , 51, 801-823	1.9	6
25	Lipschitz Classification of Almost-Riemannian Distances on Compact Oriented Surfaces. <i>Journal of Geometric Analysis</i> , 2013 , 23, 438-455	0.9	32
24	On the marginal instability of linear switched systems. <i>Systems and Control Letters</i> , 2012 , 61, 747-757	2.4	17
23	On conditions for asymptotic stability of dissipative infinite-dimensional systems with intermittent damping. <i>Journal of Differential Equations</i> , 2012 , 252, 5569-5593	2.1	8
22	Comparison between classes of state-quadratic Lyapunov functions for discrete-time linear polytopic and switched systems. <i>Systems and Control Letters</i> , 2012 , 61, 1062-1068	2.4	7
21	Adiabatic Control of the Schrödinger Equation via Conical Intersections of the Eigenvalues. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1970-1983	5.9	26
20	A Weak Spectral Condition for the Controllability of the Bilinear Schrödinger Equation with Application to the Control of a Rotating Planar Molecule. <i>Communications in Mathematical Physics</i> , 2012 , 311, 423-455	2	49
19	Converse Lyapunov Theorems for Switched Systems in Banach and Hilbert Spaces. <i>SIAM Journal on Control and Optimization</i> , 2011 , 49, 752-770	1.9	26
18	The squares of the Laplacian-Dirichlet eigenfunctions are generically linearly independent. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2010 , 16, 794-805	1	12
17	Controllability properties of a class of systems modeling swimming microscopic organisms. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2010 , 16, 1053-1076	1	5
16	Generic Controllability Properties for the Bilinear Schrödinger Equation. <i>Communications in Partial Differential Equations</i> , 2010 , 35, 685-706	1.6	23
15	On the Stabilization of Persistently Excited Linear Systems. <i>SIAM Journal on Control and Optimization</i> , 2010 , 48, 4032-4055	1.9	18
14	On the algebraic characterization of invariant sets of switched linear systems. <i>Automatica</i> , 2010 , 46, 1043-1052	2.2	22

13	High-order sufficient conditions for configuration tracking of affine connection control systems. <i>Systems and Control Letters</i> , 2010 , 59, 491-503	2.4	4
12	Two-dimensional almost-Riemannian structures with tangency points. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2010 , 27, 793-807	1.6	44
11	Stars of vibrating strings: Switching boundary feedback stabilization. <i>Networks and Heterogeneous Media</i> , 2010 , 5, 299-314	1.6	30
10	Controllability of the discrete-spectrum Schrödinger equation driven by an external field. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2009 , 26, 329-349	1.6	69
9	Tracking Control for an Ellipsoidal Submarine Driven by Kirchhoff's Laws. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 339-349	5.9	10
8	Uniform stabilization for linear systems with persistency of excitation: the neutrally stable and the double integrator cases. <i>Mathematics of Control, Signals, and Systems</i> , 2008 , 20, 135-156	1.3	19
7	A Gauss-Bonnet-like formula on two-dimensional almost-Riemannian manifolds. <i>Discrete and Continuous Dynamical Systems</i> , 2008 , 20, 801-822	2	66
6	Dubins' problem on surfaces. I. nonnegative curvature. <i>Journal of Geometric Analysis</i> , 2005 , 15, 565-587	0.9	9
5	Local Regularity of Optimal Trajectories for Control Problems with General Boundary Conditions. <i>Journal of Dynamical and Control Systems</i> , 2005 , 11, 91-123	1.1	11
4	Regularity properties of optimal trajectories of single-input control systems in dimension three. <i>Journal of Mathematical Sciences</i> , 2005 , 126, 1561-1573	0.4	10
3	On the Local Structure of Optimal Trajectories in R^3 . <i>SIAM Journal on Control and Optimization</i> , 2003 , 42, 513-531	1.9	33
2	Stabilization of Persistently Excited Linear Systems 85-120		2
1	Lie algebra for rotational subsystems of a driven asymmetric top. <i>Journal of Physics A: Mathematical and Theoretical</i> ,	2	2