Paolo Mason

List of Publications by Year
in descending order

47 papers	767 citations	687363 13 h-index	526287 27 g-index
47 all docs	47 docs citations	47 times ranked	391 citing authors

#	Article	IF	Citations
1	Time minimal trajectories for a spin 1â‹•2 particle in a magnetic field. Journal of Mathematical Physics, 2006, 47, 062101.	1.1	163
2	Controllability of the discrete-spectrum SchrÃ¶dinger equation driven by an external field. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2009, 26, 329-349.	1.4	101
3	Common Polynomial Lyapunov Functions for Linear Switched Systems. SIAM Journal on Control and Optimization, 2006, 45, 226-245.	2.1	77
4	A note on stability conditions for planar switched systems. International Journal of Control, 2009, 82, 1882-1888.	1.9	64
5	Time Optimal Swing-Up of the Planar Pendulum. IEEE Transactions on Automatic Control, 2008, 53, 1876-1886.	5.7	44
6	Adiabatic Control of the SchrÃ¶dinger Equation via Conical Intersections of the Eigenvalues. IEEE Transactions on Automatic Control, 2012, 57, 1970-1983.	5.7	35
7	Local properties of almost-Riemannian structures in dimension 3. Discrete and Continuous Dynamical Systems, 2015, 35, 4115-4147.	0.9	34
8	Generic Controllability Properties for the Bilinear SchrÃ¶dinger Equation. Communications in Partial Differential Equations, 2010, 35, 685-706.	2.2	27
9	On the marginal instability of linear switched systems. Systems and Control Letters, 2012, 61, 747-757.	2.3	24
10	Optimal Control Models of Goal-oriented Human Locomotion. SIAM Journal on Control and Optimization, 2012, 50, 147-170.	2.1	22
11	On Inverse Optimal Control Problems of Human Locomotion: Stability and Robustness of the Minimizers. Journal of Mathematical Sciences, 2013, 195, 269-287.	0.4	20
12	On Feedback Stabilization of Linear Switched Systems via Switching Signal Control. SIAM Journal on Control and Optimization, 2017, 55, 1179-1198.	2.1	20
13	On Exponential Stabilization of N-Level Quantum Angular Momentum Systems. SIAM Journal on Control and Optimization, 2019, 57, 3939-3960.	2.1	20
14	Converse Lyapunovâ€"Krasovskii theorems for uncertain retarded differential equations. Automatica, 2015, 62, 263-273.	5.0	13
15	On stability analysis of linear discrete-time switched systems using quadratic Lyapunov functions. , 2007, , .		10
16	Robust Feedback Stabilization of <i>N</i>-Level Quantum Spin Systems. SIAM Journal on Control and Optimization, 2021, 59, 669-692.	2.1	10
17	On the control of spin-boson systems. Journal of Mathematical Physics, 2015, 56, .	1.1	9
18	Is a point-wise dissipation rate enough to show ISS for time-delay systems? * *This work is supported by a public grant overseen by the French National Research Agency (ANR) as part of the Investissement dÀvenir program, through the iCODE Institute project funded by the IDEX Paris-Saclay, ANR-11-IDEX-0003-02, and by the ANR JCJC project SynchNeuro.. IFAC-PapersOnLine, 2017, 50, 14356-14361.	0.9	9

#	Article	IF	Citations
19	Comparison between classes of state-quadratic Lyapunov functions for discrete-time linear polytopic and switched systems. Systems and Control Letters, 2012, 61, 1062-1068.	2.3	7
20	Lyapunov Characterization of Uniform Exponential Stability for Nonlinear Infinite-Dimensional Systems. IEEE Transactions on Automatic Control, 2022, 67, 1685-1697.	5.7	6
21	Stability of Interconnected Uncertain Delay Systems: A Converse Lyapunov Approach. Advances in Delays and Dynamics, 2019, , 49-63.	0.4	6
22	Geometric and asymptotic properties associated withÂlinear switched systems. Journal of Differential Equations, 2015, 259, 5582-5616.	2.2	5
23	A Characterization of Switched Linear Control Systems With Finite L_{2}-Gain. IEEE Transactions on Automatic Control, 2017, 62, 1825-1837.	5.7	5
24	Feedback Exponential Stabilization of GHZ States of Multiqubit Systems. IEEE Transactions on Automatic Control, 2022, 67, 2918-2929.	5.7	5
25	Asymptotic analysis of an optimal control problem connected to the human locomotion. , 2009, , .		4
26	Time optimal swing-up of the planar pendulum. , 2007, , .		3
27	Circular Path Following for the Spherical Pendulum on a Cart. IFAC-PapersOnLine, 2017, 50, 8268-8272.	0.9	3
28	Approximate Controllability Via Adiabatic Techniques for the Three-Inputs Controlled SchrÃ¶dinger Equation. SIAM Journal on Control and Optimization, 2017, 55, 4202-4226.	2.1	3
29	Motion planning in quantum control via intersection of eigenvalues. , 2010, , .		2
30	On Exponential Stabilization of Spin <tex>$-rac{1}{2}$</tex> Systems. , 2018, , .		2
31	Lower bounds and dense discontinuity phenomena for the stabilizability radius of linear switched systems. Systems and Control Letters, 2020, 142, 104737.	2.3	2
32	On the robustness of stabilizing feedbacks for quantum spin-1/2 systems. , 2020, , .		2
33	On estimation and feedback control of spin-1/2 systems with unknown initial states. IFAC-PapersOnLine, 2020, 53, 5863-5868.	0.9	2
34	Detection of Gaussian signals via hexagonal sensor networks. International Journal of Mathematical Modelling and Numerical Optimisation, 2009, 1, 39.	0.2	1
35	Analysis of optimal control models for the human locomotion. , 2010, , .		1
36	Approximate controllability by adiabatic methods of the SchrÃ¶dinger equation with nonlinear Hamiltonian. , 2015, , .		1

#	Article	IF	Citations
37	Converse Lyapunov theorems for infinite-dimensional nonlinear switching systems. , 2019, , .		1
38	On the conicity of eigenvalues intersections for parameter-dependent self-adjoint operators. Journal of Mathematical Physics, 2020, 61, 053503.	1.1	1
39	Almost global attitude stabilisation of a 3-D pendulum by means of two control torques. IFAC-PapersOnLine, 2020, 53, 6346-6351.	0.9	1
40	On the decay rate for degenerate gradient flows subject to persistent excitation. IFAC-PapersOnLine, 2020, 53, 1709-1714.	0.9	1
41	Almost global attitude stabilisation of an underactuated axially symmetric 3-D pendulum. Automatica, 2022, 137, 110110.	5.0	1
42	Limit time optimal synthesis for a two-level quantum system. , 2008, , .		0
43	Controllability properties of discrete-spectrum Schrödinger equations. , 2008, , .		0
44	Generic controllability properties for the bilinear Schrödinger equation. , 2009, , .		0
45	On the marginal instability of linear switched systems. , 2010, , .		0
46	Controllability of the Schrödinger equation via adiabatic methods and conical intersections of the eigenvalues. , 2012, , .		0
47	Quasi-Barabanov semigroups and finiteness of the L_2-induced gain for switched linear control systems: Case of full-state observation. , 2015, , .		0