

Jinglai Shen

List of Publications by Citations

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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.

50
papers

661
citations

14
h-index

24
g-index

60
ext. papers

791
ext. citations

3.2
avg, IF

4.16
L-index

#	Paper	IF	Citations
50	Constrained optimization and distributed computation based car following control of a connected and autonomous vehicle platoon. <i>Transportation Research Part B: Methodological</i> , 2016 , 94, 314-334	7.2	100
49	Linear Complementarity Systems: Zeno States. <i>SIAM Journal on Control and Optimization</i> , 2005 , 44, 1040-1066	1.9	64
48	Conewise Linear Systems: Non-Zenoness and Observability. <i>SIAM Journal on Control and Optimization</i> , 2006 , 45, 1769-1800	1.9	51
47	Lyapunov Stability of Complementarity and Extended Systems. <i>SIAM Journal on Optimization</i> , 2007 , 17, 1056-1101	2	50
46	. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 242-255	5.9	41
45	Controllability and motion planning of a multibody Chaplygin's sphere and Chaplygin's top. <i>International Journal of Robust and Nonlinear Control</i> , 2008 , 18, 905-945	3.6	37
44	Generating Functions of Switched Linear Systems: Analysis, Computation, and Stability Applications. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 1059-1074	5.9	25
43	On the asymptotics of penalized spline smoothing. <i>Electronic Journal of Statistics</i> , 2011 , 5,	1.2	23
42	Stability and Stabilization of Relative Equilibria of Dumbbell Bodies in Central Gravity. <i>Journal of Guidance, Control, and Dynamics</i> , 2005 , 28, 833-842	2.1	23
41	Semicopositive linear complementarity systems. <i>International Journal of Robust and Nonlinear Control</i> , 2007 , 17, 1367-1386	3.6	19
40	Stability of Discrete-Time Switched Homogeneous Systems on Cones and Conewise Homogeneous Inclusions. <i>SIAM Journal on Control and Optimization</i> , 2012 , 50, 2216-2253	1.9	16
39	Mathematical Models for the Triaxial Attitude Control Testbed. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2003 , 9, 165-192	1	15
38	Switching and stability properties of conewise linear systems. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2010 , 16, 764-793	1	14
37	Translational and Rotational Maneuvers of an Underactuated Space Robot using Prismatic Actuators. <i>International Journal of Robotics Research</i> , 2002 , 21, 607-618	5.7	14
36	Local equilibrium controllability of multibody systems controlled via shape change. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 506-520	5.9	13
35	Resilient Stabilization of Switched Linear Control Systems Against Adversarial Switching. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3820-3834	5.9	11
34	Linear Complementarity Systems with Singleton Properties: Non-Zenoness. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	11

33	Estimation of Monotone Functions via P-Splines: A Constrained Dynamical Optimization Approach. <i>SIAM Journal on Control and Optimization</i> , 2011 , 49, 646-671	1.9	10
32	A class of grouped Brunk estimators and penalized spline estimators for monotone regression. <i>Biometrika</i> , 2010 , 97, 585-601	2	8
31	Observability analysis of conewise linear systems via directional derivative and positive invariance techniques. <i>Automatica</i> , 2010 , 46, 843-851	5.7	8
30	Dynamics and control of a 3D pendulum 2004 ,		8
29	Least Sparsity of ℓ_p -Norm Based Optimization Problems with $p > 1$. <i>SIAM Journal on Optimization</i> , 2018 , 28, 2721-2751	2	8
28	Quadratic stability and stabilization of bimodal piecewise linear systems. <i>Automatica</i> , 2014 , 50, 1444-1450	5.7	7
27	Shape change actuation for precision attitude control. <i>IEEE Control Systems</i> , 2003 , 23, 44-56	2.9	7
26	Shape restricted smoothing splines via constrained optimal control and nonsmooth Newton methods. <i>Automatica</i> , 2015 , 53, 216-224	5.7	6
25	Robust Non-Zenoness of Piecewise Affine Systems with Applications to Linear Complementarity Systems. <i>SIAM Journal on Optimization</i> , 2014 , 24, 2023-2056	2	6
24	Positive Invariance of Constrained Affine Dynamics and Its Applications to Hybrid Systems and Safety Verification. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 3-18	5.9	6
23	Uniform Convergence and Rate Adaptive Estimation of Convex Functions via Constrained Optimization. <i>SIAM Journal on Control and Optimization</i> , 2013 , 51, 2753-2787	1.9	5
22	Integral tau methods for stiff stochastic chemical systems. <i>Journal of Chemical Physics</i> , 2011 , 134, 044129	2.9	5
21	Semistability of switched linear systems with applications to distributed sensor networks: A generating function approach 2011 ,		5
20			5
19	Semistability of switched linear systems with application to PageRank algorithms. <i>European Journal of Control</i> , 2014 , 20, 132-140	2.5	4
18	Stability of switched linear systems on cones: A generating function approach 2010 ,		4
17	Globally convergent adaptive tracking of spacecraft angular velocity with inertia identification and adaptive linearization		4
16	Generalized Input-to-State ℓ_2 -Gains of Discrete-Time Switched Linear Control Systems. <i>SIAM Journal on Control and Optimization</i> , 2016 , 54, 1475-1503	1.9	3

15	Local equilibrium controllability of the triaxial attitude control testbed		3
14	Attitude control of a tilted air spindle testbed using proof mass actuators 2002 ,		3
13	2001 ,		3
12	Fully Distributed Optimization-Based CAV Platooning Control Under Linear Vehicle Dynamics. <i>Transportation Science</i> ,	4.4	3
11	A study of the generalized input-to-state L2-gain of discrete-time switched linear systems 2011 ,		2
10	A constrained optimal control approach to smoothing splines 2011 ,		2
9	Hybrid MPC System for Platoon based Cooperative Lane change Control Using Machine Learning Aided Distributed Optimization. <i>Transportation Research Part B: Methodological</i> , 2021 ,	7.2	2
8	Solution uniqueness of convex piecewise affine functions based optimization with applications to constrained ℓ_1 minimization. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2019 , 25, 56	1	2
7	Controllability and motion planning of multibody systems with nonholonomic constraints		1
6			1
5	Stabilization of Switched Linear Systems Using Continuous Control Input against Known Adversarial Switching 2018 ,		1
4	. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3482-3487	5.9	0
3	Nonconvex, Fully Distributed Optimization Based CAV Platooning Control Under Nonlinear Vehicle Dynamics. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-16	6.1	0
2	Addendum to ℓ_1 Generating Functions of Switched Linear Systems: Analysis, Computation, and Stability Applications [May 11 1059-1074]. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 1887-1887	5.9	
1	. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2021 , 7, 375-391	2.8	