Daniel Liberzon

List of Publications by Citations

68 papers	6,804 citations	28 h-index	73 g-index
73 ext. papers	8,541 ext. citations	3.5 avg, IF	6.74 L-index

#	Paper	IF	Citations
68	Switching in Systems and Control. *Systems and Control: Foundations and Applications*, **2003**,	0.3	2969
67	Hybrid feedback stabilization of systems with quantized signals. *Automatica*, **2003**, 39, 1543-1554	5.7	543
66	Stability of switched systems: a Lie-algebraic condition. *Systems and Control Letters*, **1999**, 37, 117-122	2.4	412
65	Lyapunov conditions for input-to-state stability of impulsive systems. *Automatica*, **2008**, 44, 2735-2744	5.7	362
64	Lie-Algebraic Stability Criteria for Switched Systems. *SIAM Journal on Control and Optimization*, **2001**, 40, 253-269	1.9	194
63	Hysteresis-based switching algorithms for supervisory control of uncertain systems. *Automatica*, **2003**, 39, 263-272	5.7	179
62	Overcoming the limitations of adaptive control by means of logic-based switching. *Systems and Control Letters*, **2003**, 49, 49-65	2.4	168
61	Calculus of Variations and Optimal Control Theory **2012**,		167
60	. *IEEE Transactions on Automatic Control*, **2007**, 52, 767-781	5.9	158
59	Finite data-rate feedback stabilization of switched and hybrid linear systems. *Automatica*, **2014**, 50, 409-420	5.7	136
58	Input/output-to-state stability and state-norm estimators for switched nonlinear systems. *Automatica*, **2012**, 48, 2029-2039	5.7	129
57	Common Lyapunov functions for families of commuting nonlinear systems. *Systems and Control Letters*, **2005**, 54, 405-416	2.4	122
56	Multiple model adaptive control with safe switching. *International Journal of Adaptive Control and Signal Processing*, **2001**, 15, 445-470	2.8	75
55	Supervision of integral-input-to-state stabilizing controllers. *Automatica*, **2002**, 38, 1327-1335	5.7	70
54	Input to State Stabilizing Controller for Systems With Coarse Quantization. *IEEE Transactions on Automatic Control*, **2012**, 57, 830-844	5.9	69
53	Lie-algebraic stability conditions for nonlinear switched systems and differential inclusions. *Systems and Control Letters*, **2006**, 55, 8-16	2.4	67
52	Switched nonlinear differential algebraic equations: Solution theory, Lyapunov functions, and stability. *Automatica*, **2012**, 48, 954-963	5.7	66

51	Logic-based switching control of a nonholonomic system with parametric modeling uncertainty. *Systems and Control Letters*, **1999**, 38, 167-177	2.4	63
50	Lyapunov-Based Small-Gain Theorems for Hybrid Systems. *IEEE Transactions on Automatic Control*, **2014**, 59, 1395-1410	5.9	62
49	Universal construction of feedback laws achieving ISS and integral-ISS disturbance attenuation. *Systems and Control Letters*, **2002**, 46, 111-127	2.4	62
48	Supervisory Control of Uncertain Linear Time-Varying Systems. *IEEE Transactions on Automatic Control*, **2011**, 56, 27-42	5.9	56
47	. *IEEE Transactions on Automatic Control*, **2007**, 52, 2390-2394	5.9	55
46	Generalized switching signals for input-to-state stability of switched systems. *Automatica*, **2016**, 64, 270-277	5.7	52
45	On stability of linear switched differential algebraic equations **2009**,		42
44	The Bang-Bang Funnel Controller for Uncertain Nonlinear Systems With Arbitrary Relative Degree. *IEEE Transactions on Automatic Control*, **2013**, 58, 3126-3141	5.9	40
43	A Lyapunov-based small-gain theorem for interconnected switched systems. *Systems and Control Letters*, **2015**, 78, 47-54	2.4	36
42	Feedback Stabilization of Switched Linear Systems With Unknown Disturbances Under Data-Rate Constraints. *IEEE Transactions on Automatic Control*, **2018**, 63, 2107-2122	5.9	31
41	An Inversion-Based Approach to Fault Detection and Isolation in Switching Electrical Networks. *IEEE Transactions on Control Systems Technology*, **2011**, 19, 1059-1074	4.8	29
40	On robust Lie-algebraic stability conditions for switched linear systems. *Systems and Control Letters*, **2012**, 61, 347-353	2.4	26
39	Entropy and Minimal Bit Rates for State Estimation and Model Detection. *IEEE Transactions on Automatic Control*, **2018**, 63, 3330-3344	5.9	25
38	Adaptive control of passifiable linear systems with quantized measurements and bounded disturbances. *Systems and Control Letters*, **2016**, 88, 62-67	2.4	25
37	Nonlinear Observers Robust to Measurement Disturbances in an ISS Sense. *IEEE Transactions on Automatic Control*, **2016**, 61, 48-61	5.9	24
36	Invertibility of switched nonlinear systems. *Automatica*, **2010**, 46, 1962-1973	5.7	24
35	Supervisory control of uncertain systems with quantized information. *International Journal of Adaptive Control and Signal Processing*, **2012**, 26, 739-756	2.8	23
34	Compensation of disturbances for MIMO systems with quantized output. *Automatica*, **2015**, 60, 239-244	5.7	22

33	Output input stability implies feedback stabilization. *Systems and Control Letters*, **2004**, 53, 237-248	2.4	22
32	Input-to-state stability for switched systems with unstable subsystems: A hybrid Lyapunov construction **2014**,		16
31	Nonlinear Control with Limited Information. *Communications in Information and Systems*, **2009**, 9, 41-58	0.8	16
30	Verifying average dwell time of hybrid systems. *Transactions on Embedded Computing Systems*, **2008**, 8, 1-37	1.8	15
29	Lyapunov small-gain theorems for networks of not necessarily ISS hybrid systems. *Automatica*, **2018**, 88, 10-20	5.7	15
28	Commutativity and asymptotic stability for linear switched DAEs **2011**,		14
27	Unified stability criteria for slowly time-varying and switched linear systems. *Automatica*, **2018**, 96, 110-120	5.7	13
26	Entropy and Minimal Data Rates for State Estimation and Model Detection **2016**,		11
25	Robust invertibility of switched linear systems **2011**,		10
24	Stabilizing uncertain systems with dynamic quantization **2008**,		10
23	Energy control of a pendulum with quantized feedback. *Automatica*, **2016**, 67, 171-177	5.7	9
22	The bang-bang funnel controller **2010**,		9
21	Invertibility of nonlinear switched systems **2008**,		9
20	Robustness of Pecora Carroll synchronization under communication constraints. *Systems and Control Letters*, **2018**, 111, 27-33	2.4	9
19	On Topological Entropy of Switched Linear Systems with Diagonal, Triangular, and General Matrices **2018**,		7
18	Finite data-rate stabilization of a switched linear system with unknown disturbance. *IFAC-PapersOnLine*, **2016**, 49, 1085-1090	0.7	4
17	Stabilizing a switched linear system with disturbance by sampled-data quantized feedback **2015**,		3
16	On topological entropy and stability of switched linear systems **2019**,		3

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15	Average Dwell-Time Bounds for ISS and Integral ISS of Switched Systems using Lyapunov Functions **2020**,		3
14	Topological entropy of switched linear systems: general matrices and matrices with commutation relations. *Mathematics of Control, Signals, and Systems*, **2020**, 32, 411-453	1.3	3
13	Entropy notions for state estimation and model detection with finite-data-rate measurements **2016**,		3
12	**2019**,		3
11	Connections between stability conditions for slowly time-varying and switched linear systems **2015**,		2
10	Stabilizing a switched linear system by sampled-data quantized feedback **2011**,		2
9	ISS and integral-ISS of switched systems with nonlinear supply functions. *Mathematics of Control, Signals, and Systems*,1	1.3	2
8	Analysis of different Lyapunov function constructions for interconnected hybrid systems **2016**,		2
7	Global Stability and Asymptotic Gain Imply Input-to-State Stability for State-Dependent Switched Systems **2018**,		2
6	An Approach to Robust Synchronization of Electric Power Generators **2018**,		2
5	A Library of Second-Order Models for Synchronous Machines. *IEEE Transactions on Power Systems*, **2020**, 35, 4803-4814	7	1
4	Adaptive control using quantized measurements with application to vision-only landing control **2010**,		1
3	On Topological Entropy of Interconnected Nonlinear Systems **2021**, 5, 2210-2214		0
2	Robust leader-follower synchronization of electric power generators. *Systems and Control Letters*, **2021**, 152, 104937	2.4	
1	How to Park a Car Blindfolded. *IFAC-PapersOnLine*, **2019**, 52, 211-216	0.7	