Andrew R Teel

List of Publications by Citations

51 papers	4,327 citations	30 h-index	51 g-index
51 ext. papers	5,194 ext. citations	3.5 avg, IF	5.79 L-index

#	Paper	IF	Citations
51	Global stabilization and restricted tracking for multiple integrators with bounded controls. *Systems and Control Letters*, **1992**, 18, 165-171	2.4	649
50	Networked Control Systems With Communication Constraints: Tradeoffs Between Transmission Intervals, Delays and Performance. *IEEE Transactions on Automatic Control*, **2010**, 55, 1781-1796	5.9	540
49	Exponential stability of impulsive systems with application to uncertain sampled-data systems. *Systems and Control Letters*, **2008**, 57, 378-385	2.4	444
48	Lyapunov conditions for input-to-state stability of impulsive systems. *Automatica*, **2008**, 44, 2735-2744	5.7	362
47	A Lyapunov Proof of an Improved Maximum Allowable Transfer Interval for Networked Control Systems. *IEEE Transactions on Automatic Control*, **2007**, 52, 892-897	5.9	193
46	Characterizations of input-to-state stability for hybrid systems. *Systems and Control Letters*, **2009**, 58, 47-53	2.4	181
45	A smooth Lyapunov function from a class-${mathcal{KL}}$ estimate involving two positive semidefinite functions. *ESAIM - Control, Optimisation and Calculus of Variations*, **2000**, 5, 313-367	1	178
44	Stability and Performance for Saturated Systems via Quadratic and Nonquadratic Lyapunov Functions. *IEEE Transactions on Automatic Control*, **2006**, 51, 1770-1786	5.9	173
43	Stability analysis for stochastic hybrid systems: A survey. *Automatica*, **2014**, 50, 2435-2456	5.7	153
42	. *IEEE Transactions on Automatic Control*, **2007**, 52, 1615-1630	5.9	118
41	Smooth Lyapunov functions and robustness of stability for difference inclusions. *Systems and Control Letters*, **2004**, 52, 395-405	2.4	85
40	Non-holonomic control systems: from steering to stabilization with sinusoids. *International Journal of Control*, **1995**, 62, 849-870	1.5	84
39	Stability of delay impulsive systems with application to networked control systems. *Transactions of the Institute of Measurement and Control*, **2010**, 32, 511-528	1.8	74
38	Smooth Lyapunov Functions for Hybrid SystemsPart I: Existence Is Equivalent to Robustness. *IEEE Transactions on Automatic Control*, **2007**, 52, 1264-1277	5.9	69
37	On the Robustness of $mathcalKL$-stability for Difference Inclusions: Smooth Discrete-Time Lyapunov Functions. *SIAM Journal on Control and Optimization*, **2005**, 44, 777-800	1.9	69
36	Linear systems with input nonlinearities: Global stabilization by scheduling a family of H∞-type controllers. *International Journal of Robust and Nonlinear Control*, **1995**, 5, 399-411	3.6	65
35	Lyapunov-Based Small-Gain Theorems for Hybrid Systems. *IEEE Transactions on Automatic Control*, **2014**, 59, 1395-1410	5.9	62

34	Hybrid systems: Generalized solutions and robust stability. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2004**, 37, 1-12		58
33	**2006**,		54
32	Hybrid Feedback Control and Robust Stabilization of Nonlinear Systems. *IEEE Transactions on Automatic Control*, **2007**, 52, 2103-2117	5.9	54
31	On Assigning the Derivative of a Disturbance Attenuation Control Lyapunov Function. *Mathematics of Control, Signals, and Systems*, **2000**, 13, 95-124	1.3	50
30	The almost disturbance decoupling problem with internal stability for linear systems subject to input saturation□state feedback case. *Automatica*, **1996**, 32, 619-624	5.7	47
29	Output feedback design for saturated linear plants using deadzone loops. *Automatica*, **2009**, 45, 2917-2924	5.7	43
28	Semi-global stabilization of minimum phase nonlinear systems in special normal forms. *Systems and Control Letters*, **1992**, 19, 187-192	2.4	41
27	Input□output-to-state stability for discrete-time systems. *Automatica*, **2008**, 44, 326-336	5.7	39
26	Weak Converse Lyapunov Theorems and Control-Lyapunov Functions. *SIAM Journal on Control and Optimization*, **2004**, 42, 1934-1959	1.9	38
25	Stability of Delay Impulsive Systems with Application to Networked Control Systems. *Proceedings of the American Control Conference*, **2007**,	1.2	34
24	Lyapunov characterization of forced oscillations. *Automatica*, **2005**, 41, 1723-1735	5.7	33
23	Discrete-time asymptotic controllability implies smooth control-Lyapunov function. *Systems and Control Letters*, **2004**, 52, 349-359	2.4	32
22	Simultaneous Lp-stabilization and internal stabilization of linear systems subject to input saturation □state feedback case. *Systems and Control Letters*, **1995**, 25, 219-226	2.4	32
21	Robust semi-global output tracking for nonlinear singularly perturbed systems. *International Journal of Control*, **1996**, 65, 639-666	1.5	27
20	Robust Input-to-State Stability for Hybrid Systems. *SIAM Journal on Control and Optimization*, **2013**, 51, 1651-1678	1.9	26
19	On the topological structure of attraction basins for differential inclusions. *Systems and Control Letters*, **2011**, 60, 1045-1050	2.4	26
18	Line-of-sight path-following along regularly parametrized curves solved as a generic maneuvering problem **2011**,		26
17	A Converse Lyapunov Theorem and Robustness for Asymptotic Stability in Probability. *IEEE Transactions on Automatic Control*, **2014**, 59, 2426-2441	5.9	24

16	A converse Lyapunov theorem for strong global recurrence. *Automatica*, **2013**, 49, 2963-2974	5.7	24
15	Robust Nonlinear Regulation: Continuous-Time Internal Models and Hybrid Identifiers. *IEEE Transactions on Automatic Control*, **2017**, 62, 3136-3151	5.9	21
14	Hybrid mechanisms for robust synchronization and coordination of multi-agent networked sampled-data systems. *Automatica*, **2019**, 99, 41-53	5.7	16
13	Stability analysis of distributed convex optimization under persistent attacks: A hybrid systems approach. *Automatica*, **2020**, 111, 108607	5.7	15
12	Relaxed Persistent Flow/Jump Conditions for Uniform Global Asymptotic Stability. *IEEE Transactions on Automatic Control*, **2014**, 59, 2766-2771	5.9	11
11	Distributed robust Nash equilibrium seeking for aggregative games under persistent attacks: A hybrid systems approach. *Automatica*, **2020**, 122, 109255	5.7	11
10	On the equivalence between global recurrence and the existence of a smooth Lyapunov function for hybrid systems. *Systems and Control Letters*, **2016**, 88, 54-61	2.4	9
9	On Uniformity in definitions of global asymptotic stability for time-varying nonlinear systems. *Automatica*, **2006**, 42, 2219-2222	5.7	9
8	Sufficient conditions for robustness of (mathcal{K}mathcal{L}) -stability for difference inclusions. *Mathematics of Control, Signals, and Systems*, **2007**, 19, 183-205	1.3	7
7	Model-Based Dynamic Event-Triggered Control for Systems With Uncertainty: A Hybrid System Approach. *IEEE Transactions on Automatic Control*, **2021**, 66, 444-451	5.9	7
6	Preliminary results on the existence of continuous Lyapunov functions for semicontinuous, stochastic discrete-time systems **2009**,		4
5	Results on existence of smooth Lyapunov functions for (pre-)asymptotically stable hybrid systems with non-open basins of attraction. *Proceedings of the American Control Conference*, **2007**,	1.2	4
4	Stability analysis for networked control systems with sampling, transmission protocols and input delays. *Nonlinear Analysis: Hybrid Systems*, **2021**, 39, 100974	4.5	3
3	Robust nonlinear regulation: Continuous-time internal models and hybrid identifiers **2014**,		2
2	Recent Developments in Stability Theory for Stochastic Hybrid Inclusions. *Lecture Notes in Control and Information Sciences*, **2017**, 329-354	0.5	1
1	Global stabilizaton with improved performance for linear systems with actuator saturation. *Controle and Automacao*, **2003**, 14, 9-19		