

# Aneel Tanwani

## List of Publications by Year in descending order

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63  
papers

846  
citations

759055

12  
h-index

580701

25  
g-index

63  
all docs

63  
docs citations

63  
times ranked

479  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observability for Switched Linear Systems: Characterization and Observer Design. IEEE Transactions on Automatic Control, 2013, 58, 891-904.	3.6	154
2	Observer-based feedback stabilization of linear systems with event-triggered sampling and dynamic quantization. Systems and Control Letters, 2016, 94, 46-56.	1.3	77
3	Dynamical Systems Coupled with Monotone Set-Valued Operators: Formalisms, Applications, Well-Posedness, and Stability. SIAM Review, 2020, 62, 3-129.	4.2	76
4	Stability and Observer Design for Lur'e Systems with Multivalued, Nonmonotone, Time-Varying Nonlinearities and State Jumps. SIAM Journal on Control and Optimization, 2014, 52, 3639-3672.	1.1	41
5	An Inversion-Based Approach to Fault Detection and Isolation in Switching Electrical Networks. IEEE Transactions on Control Systems Technology, 2011, 19, 1059-1074.	3.2	39
6	Observability implies observer design for switched linear systems. , 2011, , .		29
7	Invertibility of switched nonlinear systems. Automatica, 2010, 46, 1962-1973.	3.0	28
8	On observability of switched differential-algebraic equations. , 2010, , .		27
9	ISS Lyapunov functions for cascade switched systems and sampled-data control. Automatica, 2019, 105, 216-227.	3.0	26
10	Hybrid-type observer design based on a sufficient condition for observability in switched nonlinear systems. International Journal of Robust and Nonlinear Control, 2014, 24, 1064-1089.	2.1	24
11	Well-Posedness and Output Regulation for Implicit Time-Varying Evolution Variational Inequalities. SIAM Journal on Control and Optimization, 2018, 56, 751-781.	1.1	24
12	Stabilization of boundary controlled hyperbolic PDEs via Lyapunov-based event triggered sampling and quantization. , 2017, , .		21
13	Observer Design for Unilaterally Constrained Lagrangian Systems: A Passivity-Based Approach. IEEE Transactions on Automatic Control, 2016, 61, 2386-2401.	3.6	20
14	On using norm estimators for event-triggered control with dynamic output feedback. , 2015, , .		15
15	Robust invertibility of switched linear systems. , 2011, , .		12
16	Observability of Switched Linear Systems. Lecture Notes in Control and Information Sciences, 2015, , 205-240.	0.6	12
17	Stability notions for a class of nonlinear systems with measure controls. Mathematics of Control, Signals, and Systems, 2015, 27, 245-275.	1.4	12
18	Determinability and state estimation for switched differential-algebraic equations. Automatica, 2017, 76, 17-31.	3.0	12

#	ARTICLE	IF	CITATIONS
19	Error covariance bounds for suboptimal filters with Lipschitzian drift and Poisson-sampled measurements. <i>Automatica</i> , 2020, 122, 109280.	3.0	12
20	Piecewise structure of Lyapunov functions and densely checked decrease conditions for hybrid systems. <i>Mathematics of Control, Signals, and Systems</i> , 2021, 33, 123-149.	1.4	12
21	Stabilization with event-driven controllers over a digital communication channel with random transmissions. , 2017, , .		11
22	Stabilization of Deterministic Control Systems Under Random Sampling: Overview and Recent Developments. <i>Systems and Control: Foundations and Applications</i> , 2018, , 209-246.	0.1	11
23	Invertibility of nonlinear switched systems. , 2008, , .		10
24	Observability of switched differential-algebraic equations for general switching signals. , 2012, , .		10
25	An observer for switched differential-algebraic equations based on geometric characterization of observability. , 2013, , .		10
26	Convergence of proximal solutions for evolution inclusions with time-dependent maximal monotone operators. <i>Mathematical Programming</i> , 2022, 194, 1017-1059.	1.6	10
27	ISS and integral-ISS of switched systems with nonlinear supply functions. <i>Mathematics of Control, Signals, and Systems</i> , 2022, 34, 297-327.	1.4	10
28	Back-and-forth operation of state observers and norm estimation of estimation error. , 2012, , .		9
29	Comments on "Observability of Switched Linear Systems: Characterization and Observer Design". <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 3396-3400.	3.6	8
30	On output regulation in state-constrained systems: An application to polyhedral case. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 1513-1518.	0.4	7
31	Observer Design for Switched Linear Systems with State Jumps. <i>Lecture Notes in Control and Information Sciences</i> , 2015, , 179-203.	0.6	6
32	Passivity-based observer design for a class of Lagrangian systems with perfect unilateral constraints. , 2013, , .		5
33	Input-to-state stabilization in H1-norm for boundary controlled linear hyperbolic PDEs with application to quantized control. , 2016, , .		5
34	Feedback Nash Equilibrium for Randomly Switching Differential-Algebraic Games. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 3286-3301.	3.6	5
35	Observer Design for Detectable Switched Differential-Algebraic Equations. <i>IFAC-PapersOnLine</i> , 2017, 50, 2953-2958.	0.5	4
36	Smooth Approximation of Patchy Lyapunov Functions for Switched Systems. <i>IFAC-PapersOnLine</i> , 2019, 52, 364-369.	0.5	4

#	ARTICLE	IF	CITATIONS
37	Detectability and observer design for switched differential-algebraic equations. Automatica, 2019, 99, 289-300.	3.0	4
38	Max-min Lyapunov functions for switched systems and related differential inclusions. Automatica, 2020, 120, 109123.	3.0	4
39	On Stability of Measure Driven Differential Equations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 241-246.	0.4	3
40	On output regulation in systems with differential variational inequalities. , 2014, , .		3
41	On detectability of switched linear differential-algebraic equations. , 2015, , .		3
42	Differential-algebraic inclusions with maximal monotone operators. , 2016, , .		3
43	Asymptotic Stabilization of Some Finite and Infinite Dimensional Systems by Means of Dynamic Event-Triggered Output Feedbacks. Lecture Notes in Control and Information Sciences, 2017, , 201-230.	0.6	3
44	Suboptimal Filtering Over Sensor Networks With Random Communication. IEEE Transactions on Automatic Control, 2022, 67, 5456-5463.	3.6	3
45	Average Dwell-Time Bounds for ISS and Integral ISS of Switched Systems using Lyapunov Functions. , 2020, , .		3
46	Instability of dwell-time constrained switched nonlinear systems. Systems and Control Letters, 2022, 162, 105164.	1.3	3
47	Nearest neighbor control for practical stabilization of passive nonlinear systems. Automatica, 2022, 141, 110278.	3.0	3
48	Max-Min Lyapunov Functions for Switching Differential Inclusions. , 2018, , .		2
49	Practical Stabilization of Passive Nonlinear Systems with Limited Control. IFAC-PapersOnLine, 2019, 52, 460-465.	0.5	2
50	Cone-Copositive Lyapunov Functions for Complementarity Systems: Converse Result and Polynomial Approximation. IEEE Transactions on Automatic Control, 2022, 67, 1253-1268.	3.6	2
51	Nonpathological ISS-Lyapunov Functions for Interconnected Differential Inclusions. IEEE Transactions on Automatic Control, 2022, 67, 3774-3789.	3.6	2
52	On a sufficient condition for observability of nonlinear switched systems and observer design strategy. , 2011, , .		1
53	Feedback Nash Equilibrium for Markov Jump Games under Differential-Algebraic Constraints with Application to Robust Control. , 2018, , .		1
54	Stabilization of Switched Nonlinear Systems with Dynamic Output Feedback and Event-based Sampling. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
55	Almost Everywhere Conditions for Hybrid Lipschitz Lyapunov Functions. , 2019, , .		1
56	Computation of Lyapunov Functions under State Constraints using Semidefinite Programming Hierarchies. IFAC-PapersOnLine, 2020, 53, 6281-6286.	0.5	1
57	Output Regulation in Differential Variational Inequalities using Internal Model Principle and Passivity-Based Approach. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 31-34.	0.2	0
58	Observability of Discrete-Time Linear Systems with Communication Protocols and Dropouts. , 2018, , .		0
59	Performance Bounds for Stochastic Receding Horizon Control with Randomly Sampled Measurements. , 2019, , .		0
60	A discretization algorithm for time-varying composite gradient flow dynamics. IFAC-PapersOnLine, 2021, 54, 558-563.	0.5	0
61	Filtering over networks with random communication. , 2021, , .		0
62	Error Bounds for Locally Optimal Distributed Filters with Random Communication Graphs. , 2021, , .		0
63	Lyapunov Functions for Singularly Perturbed Hybrid Systems with Frequent Jump Dynamics. , 2021, , .		0