

# Anuradha M Annaswamy

## List of Publications by Citations

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133  
papers

2,886  
citations

28  
h-index

50  
g-index

149  
ext. papers

3,775  
ext. citations

4.7  
avg, IF

5.75  
L-index

#	Paper	IF	Citations
133	Adaptive Control of Quadrotor UAVs: A Design Trade Study With Flight Evaluations. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 1400-1406	4.8	293
132	Persistent excitation in adaptive systems. <i>International Journal of Control</i> , <b>1987</b> , 45, 127-160	1.5	186
131	Adaptive control of continuous time systems with convex/concave parametrization. <i>Automatica</i> , <b>1998</b> , 34, 33-49	5.7	148
130	An adaptive Smith-controller for time-delay systems with relative degree. <i>Systems and Control Letters</i> , <b>2003</b> , 49, 347-358	2.4	127
129	A systems and control perspective of CPS security. <i>Annual Reviews in Control</i> , <b>2019</b> , 47, 394-411	10.3	122
128	Systems & Control for the future of humanity, research agenda: Current and future roles, impact and grand challenges. <i>Annual Reviews in Control</i> , <b>2017</b> , 43, 1-64	10.3	106
127	Adaptive Control and the NASA X-15-3 Flight Revisited. <i>IEEE Control Systems</i> , <b>2010</b> , 30, 32-48	2.9	96
126	On Adaptive Control With Closed-Loop Reference Models: Transients, Oscillations, and Peaking. <i>IEEE Access</i> , <b>2013</b> , 1, 703-717	3.5	89
125	Self-sustained oscillations and vortex shedding in backward-facing step flows: Simulation and linear instability analysis. <i>Physics of Fluids</i> , <b>2004</b> , 16, 3361-3373	4.4	84
124	A Hierarchical Transactive Control Architecture for Renewables Integration in Smart Grids: Analytical Modeling and Stability. <i>IEEE Transactions on Smart Grid</i> , <b>2014</b> , 5, 2054-2065	10.7	74
123	Adaptive posicast controller for time-delay systems with relative degree. <i>Automatica</i> , <b>2010</b> , 46, 279-289	5.7	65
122	Adaptive control of nonlinearly parameterized systems with a triangular structure. <i>Automatica</i> , <b>2002</b> , 38, 115-123	5.7	60
121	Online capacity estimation of lithium-ion batteries with deep long short-term memory networks. <i>Journal of Power Sources</i> , <b>2021</b> , 482, 228863	8.9	59
120	Spark ignition engine fuel-to-air ratio control: An adaptive control approach. <i>Control Engineering Practice</i> , <b>2010</b> , 18, 1369-1378	3.9	57
119	. <i>IEEE Transactions on Sustainable Energy</i> , <b>2016</b> , 7, 875-885	8.2	49
118	Adaptive Output Feedback Based on Closed-Loop Reference Models. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 2728-2733	5.9	47
117	Adaptive control of hypersonic vehicles in the presence of modeling uncertainties <b>2009</b> ,		46

116	Adaptive Output Feedback Based on Closed-Loop Reference Models for Hypersonic Vehicles. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2015</b> , 38, 2429-2440	2.1	41
115	Mitigation of thermoacoustic instability utilizing steady air injection near the flame anchoring zone. <i>Combustion and Flame</i> , <b>2010</b> , 157, 686-700	5.3	41
114	Topology identification in distribution network with limited measurements <b>2012</b> ,		40
113	Controls for Smart Grids: Architectures and Applications. <i>Proceedings of the IEEE</i> , <b>2017</b> , 105, 2244-2261	14.3	39
112	A Dynamic Market Mechanism for the Integration of Renewables and Demand Response. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 940-955	4.8	37
111	Spark-Ignition-Engine Idle Speed Control: An Adaptive Control Approach. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 990-1002	4.8	37
110	A delay-aware cyber-physical architecture for wide-area control of power systems. <i>Control Engineering Practice</i> , <b>2017</b> , 60, 171-182	3.9	33
109	A Dynamic Mechanism for Wholesale Energy Market: Stability and Robustness. <i>IEEE Transactions on Smart Grid</i> , <b>2014</b> , 5, 2877-2888	10.7	32
108	Adaptive systems with closed-loop reference-models, part I: Transient performance <b>2013</b> ,		31
107	A general approach to the stability analysis of adaptive systems. <i>International Journal of Control</i> , <b>1985</b> , 41, 193-216	1.5	29
106	Adaptive control of a class of nonlinear systems with convex/concave parameterization. <i>Systems and Control Letters</i> , <b>1999</b> , 37, 267-274	2.4	28
105	A real-time demand response market through a repeated incomplete-information game. <i>Energy</i> , <b>2018</b> , 143, 424-438	7.9	28
104	Adaptive configuration control of multiple UAVs. <i>Control Engineering Practice</i> , <b>2013</b> , 21, 1043-1052	3.9	26
103	Active control of supersonic impingement tones using steady and pulsed microjets. <i>Experiments in Fluids</i> , <b>2006</b> , 41, 841-855	2.5	25
102	Self-tuning regulators for combustion oscillations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2003</b> , 459, 1709-1749	2.4	25
101	Emerging research topics in control for smart infrastructures. <i>Annual Reviews in Control</i> , <b>2016</b> , 42, 259-270.	3	24
100	Stable Neural Controllers for Nonlinear Dynamic Systems. <i>Automatica</i> , <b>1998</b> , 34, 641-650	5.7	24
99	. <i>IEEE Journal of Oceanic Engineering</i> , <b>2008</b> , 33, 563-578	3.3	24

98	Wholesale energy market in a smart grid: Dynamic modeling and stability <b>2011</b> ,		23
97	Composite adaptive posicast control for a class of LTI plants with known delay. <i>Automatica</i> , <b>2013</b> , 49, 1914-1924	5.7	22
96	Adaptive Control of Quadrotor UAVs in the Presence of Actuator Uncertainties <b>2010</b> ,		22
95	Integration of Automatic Generation Control and Demand Response via a Dynamic Regulation Market Mechanism. <i>IEEE Transactions on Control Systems Technology</i> , <b>2019</b> , 27, 631-646	4.8	20
94	Heat release dynamics modeling of kinetically controlled burning. <i>Combustion and Flame</i> , <b>2002</b> , 128, 217-231	5.3	19
93	Hierarchical Hybrid Architecture for Volt/Var Control of Power Distribution Grids. <i>IEEE Transactions on Power Systems</i> , <b>2020</b> , 35, 854-863	7	19
92	Demand response in smart grids: Participants, challenges, and a taxonomy <b>2014</b> ,		15
91	One-shot battery degradation trajectory prediction with deep learning. <i>Journal of Power Sources</i> , <b>2021</b> , 506, 230024	8.9	14
90	A hierarchical transactive control architecture for renewables integration in Smart Grids <b>2012</b> ,		13
89	Guaranteed delay margins for adaptive control of scalar plants <b>2012</b> ,		13
88	Toward a Retail Market for Distribution Grids. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 4891-4905	10.7	13
87	. <i>Proceedings of the IEEE</i> , <b>2018</b> , 106, 518-537	14.3	12
86	A Framework for Evaluating the Resilience of Dynamic Real-Time Market Mechanisms. <i>IEEE Transactions on Smart Grid</i> , <b>2016</b> , 7, 2904-2912	10.7	12
85	Robust Adaptive Control in the Presence of Unmodeled Dynamics: A Counter to Rohrs's Counterexample <b>2013</b> ,		12
84	The effect of a smart meter on congestion and stability in a power market <b>2010</b> ,		12
83	CONVERGENCE PROPERTIES OF ADAPTIVE SYSTEMS AND THE DEFINITION OF EXPONENTIAL STABILITY. <i>SIAM Journal on Control and Optimization</i> , <b>2018</b> , 56, 2463-2484	1.9	11
82	Parallelized model predictive control <b>2013</b> ,		11
81	Adaptive control of hypersonic vehicles in presence of aerodynamic and center of gravity uncertainties <b>2010</b> ,		11

80	Tunable and reconfigurable mechanical transmission-line metamaterials via direct active feedback control. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 123, 117-130	7.8	11
79	A Reduced-Order Model of a Lithium-Ion Cell Using the Absolute Nodal Coordinate Formulation Approach. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 1001-1014	4.8	10
78	A dynamic model of the combined electricity and natural gas markets <b>2015</b> ,		10
77	A robust environment for simulation and testing of adaptive control for mini-UAVs <b>2009</b> ,		10
76	A Dynamic Market Mechanism for Combined Heat and Power Microgrid Energy Management. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 10033-10039	0.7	9
75	Reliability Contracts Between Renewable and Natural Gas Power Producers. <i>IEEE Transactions on Control of Network Systems</i> , <b>2019</b> , 6, 1075-1085	4	9
74	Adaptive control of time-varying systems with gain-scheduling <b>2008</b> ,		9
73	Fast Adaptive Observers for Battery Management Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 776-789	4.8	9
72	Adaptive control of a Networked Control System with hierarchical scheduling <b>2011</b> ,		8
71	Adaptive switching controllers for systems with hybrid communication protocols <b>2012</b> ,		8
70	Adaptive control and the NASA X-15 program: A concise history, lessons learned, and a provably correct design <b>2008</b> ,		8
69	A practical integration of automatic generation control and Demand Response <b>2016</b> ,		8
68	A Proximal Atomic Coordination Algorithm for Distributed Optimization. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	8
67	Co-Design of Arbitrated Network Control Systems With Overrun Strategies. <i>IEEE Transactions on Control of Network Systems</i> , <b>2018</b> , 5, 128-141	4	7
66	Foundations of Infrastructure-CPS <b>2016</b> ,		7
65	Delay-aware co-designs for wide-area control of power grids <b>2014</b> ,		7
64	Guaranteed delay margins for adaptive systems with state variables accessible <b>2013</b> ,		7
63	Automotive Powertrain Control Problems Involving Time Delay: An Adaptive Control Approach <b>2008</b> ,		7

62	Reinventing the utility for distributed energy resources: A proposal for retail electricity markets. <i>Advances in Applied Energy</i> , <b>2021</b> , 2, 100026		7
61	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 505-520	4.8	7
60	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 29-42	4.8	7
59	Design and Stability of Optimal Frequency Control in Power Networks: A Passivity-based Approach <b>2018</b> ,		7
58	Computable Delay Margins for Adaptive Systems With State Variables Accessible. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 5039-5054	5.9	6
57	A Dynamic Regulation Market Mechanism for improved financial settlements in wholesale electricity markets <b>2017</b> ,		6
56	Matrix regressor adaptive observers for battery management systems <b>2015</b> ,		6
55	An adaptive control technology for safety of a GTM-like aircraft <b>2009</b> ,		6
54	Synchronization control for physics-based collaborative virtual environments with shared haptics. <i>Advanced Robotics</i> , <b>2007</b> , 21, 1001-1029	1.7	6
53	Adaptive Flight Control in the Presence of Multiple Actuator Anomalies. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	6
52	Connections Between Adaptive Control and Optimization in Machine Learning <b>2019</b> ,		6
51	. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 3023-3038	5.9	6
50	Impact of increased renewables on natural gas markets in eastern United States. <i>Journal of Modern Power Systems and Clean Energy</i> , <b>2017</b> , 5, 424-438	4	5
49	Bumpless Reengagement Using Shared Control between Human Pilot and Adaptive Autopilot. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 5343-5348	0.7	5
48	Smart Cities and Control [Technical Activities]. <i>IEEE Control Systems</i> , <b>2015</b> , 35, 20-21	2.9	5
47	Shared Control Between Adaptive Autopilots and Human Operators for Anomaly Mitigation. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 51, 353-358	0.7	4
46	A new approach to robust adaptive control <b>2016</b> ,		4
45	Using natural gas reserves to mitigate intermittence of renewables in the day ahead market <b>2017</b> ,		4

44	Adaptive output-feedback control for relative degree two systems based on closed-loop reference models <b>2015</b> ,		4
43	A model-based dynamic toll pricing strategy for controlling highway traffic <b>2016</b> ,		4
42	Fast Parameter Convergence in Adaptive Flight Control <b>2020</b> ,		3
41	Adaptive output-feedback control for a class of multi-input-multi-output plants with applications to very flexible aircraft <b>2016</b> ,		3
40	Application of Smart Infrastructure Systems approach to precision medicine. <i>Applied &amp; Translational Genomics</i> , <b>2015</b> , 7, 40-4		3
39	Sequential Loop Closure Based Adaptive Output Feedback. <i>IEEE Access</i> , <b>2017</b> , 5, 23436-23451	3.5	3
38	Shared Control Between Pilots and Autopilots: An Illustration of a Cyberphysical Human System. <i>IEEE Control Systems</i> , <b>2020</b> , 40, 77-97	2.9	3
37	Distributed control for polygeneration microgrids: A Dynamic Market Mechanism approach. <i>Control Engineering Practice</i> , <b>2022</b> , 121, 105052	3.9	3
36	A distributed approach to the Optimal Power Flow problem for unbalanced and mesh networks. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 13287-13292	0.7	3
35	A historical perspective of adaptive control and learning. <i>Annual Reviews in Control</i> , <b>2021</b> , 52, 18-18	10.3	3
34	Distributed Optimization in Distribution Systems: Use Cases, Limitations, and Research Needs. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 1-1	7	3
33	Model-Based Dynamic Toll Pricing: An Overview. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4778	2.6	3
32	Analysis of slow convergence regions in adaptive systems <b>2016</b> ,		3
31	Cumulative Prospect Theory Based Dynamic Pricing for Shared Mobility on Demand Services <b>2019</b> ,		3
30	Active wave suppression in the interior of a one-dimensional domain. <i>Automatica</i> , <b>2019</b> , 100, 403-406	5.7	3
29	Active boundary and interior absorbers for one-dimensional wave propagation: Application to transmission-line metamaterials. <i>Automatica</i> , <b>2020</b> , 117, 108855	5.7	2
28	Spatially Continuous Modeling and Control of Swing Dynamics in Electric Power Grids. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 4400-4405	0.7	2
27	An adaptive reset control system for flight safety in the presence of actuator anomalies <b>2010</b> ,		2

26	A Polynomial Adaptive Controller for Nonlinearly Parameterized Systems <b>2006</b> ,		2
25	Error Models for Stable Hybrid Adaptive Systems <b>1983</b> ,		2
24	A Dynamic Routing Framework for Shared Mobility Services. <i>ACM Transactions on Cyber-Physical Systems</i> , <b>2020</b> , 4, 1-28	2.3	2
23	Parameter Estimation in Adaptive Control of Time-Varying Systems Under a Range of Excitation Conditions. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	2
22	Transactive Control Approach to Trip Optimization in Electric Railways <b>2019</b> ,		2
21	Modeling and Control of Wave Propagation in a Ring With Applications to Power Grids. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 3676-3689	5.9	2
20	A Class of High Order Tuners for Adaptive Systems <b>2021</b> , 5, 391-396		2
19	Robust Adaptive Posicast Controller**Sponsor and financial support acknowledgment goes here. Paper titles should be written in uppercase and lowercase letters, not all uppercase.. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 398-403	0.7	1
18	Adaptive Control of Hypersonic Vehicles in the Presence of Rate Limits <b>2018</b> ,		1
17	Sparse and Distributed Control of Wide-Area Power Systems with Large Communication Delays <b>2018</b> ,		1
16	A Dynamic Framework for Electricity Markets. <i>The IMA Volumes in Mathematics and Its Applications</i> , <b>2018</b> , 129-153	0.5	1
15	Experimental validation of adaptive observers for battery management systems <b>2017</b> ,		1
14	Optimal control of wind farms for fatigue load minimization <b>2017</b> ,		1
13	Control-oriented modeling and adaptive parameter estimation of a Lithium ion intercalation cell <b>2015</b> ,		1
12	Noise Control Due to the Stator Wake Blade Interaction via Tail Articulation. <i>IEEE Journal of Oceanic Engineering</i> , <b>2007</b> , 32, 551-564	3.3	1
11	Adaptation in network control systems with hierarchical scheduling. <i>IET Control Theory and Applications</i> , <b>2019</b> , 13, 2775-2782	2.5	1
10	A Stable High-Order Tuner for General Convex Functions <b>2022</b> , 6, 566-571		1
9	DER Forecast using Privacy Preserving Federated Learning. <i>IEEE Internet of Things Journal</i> , <b>2022</b> , 1-1	10.7	1



8	A Hierarchical Local Electricity Market for a DER-rich Grid Edge. <i>IEEE Transactions on Smart Grid</i> , <b>2022</b> , 1-1	10.7	1
7	Estimation of Potentials in Lithium-Ion Batteries Using Machine Learning Models. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-16	4.8	0
6	A hybrid architecture for volt-var control in active distribution grids. <i>Applied Energy</i> , <b>2022</b> , 312, 118735	10.7	0
5	Value of Time and Elasticity of Portuguese Freeway Users: Insights from Analysis of Survey Data. <i>Infrastructures</i> , <b>2022</b> , 7, 71	2.6	0
4	Adaptive Control for Regulation of a Quadratic Function of the State. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 2831-2836	5.9	
3	Analysis of sticking regions in adaptive systems. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2017</b> , 31, 1754-1778	2.8	
2	Robust Adaptive Control <b>2020</b> , 1-11		
1	Improved Observability in Distribution Grids Using Correlational Measurements. <i>IEEE Access</i> , <b>2022</b> , 10, 27320-27329	3.5	