

# Anuradha M Annaswamy

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/4480456/anuradha-m-annaswamy-publications-by-year.pdf>

**Version:** 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Distributed control for polygeneration microgrids: A Dynamic Market Mechanism approach. <i>Control Engineering Practice</i> , <b>2022</b> , 121, 105052	3.9	3
132	A Stable High-Order Tuner for General Convex Functions <b>2022</b> , 6, 566-571		1
131	Improved Observability in Distribution Grids Using Correlational Measurements. <i>IEEE Access</i> , <b>2022</b> , 10, 27320-27329	3.5	
130	DER Forecast using Privacy Preserving Federated Learning. <i>IEEE Internet of Things Journal</i> , <b>2022</b> , 1-1	10.7	1
129	A hybrid architecture for volt-var control in active distribution grids. <i>Applied Energy</i> , <b>2022</b> , 312, 118735	10.7	0
128	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
127	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
126	A historical perspective of adaptive control and learning. <i>Annual Reviews in Control</i> , <b>2021</b> , 52, 18-18	10.3	3
125	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
124	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
123	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
122	Model-Based Dynamic Toll Pricing: An Overview. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4778	2.6	3
121	A Class of High Order Tuners for Adaptive Systems <b>2021</b> , 5, 391-396		2
120	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 29-42	4.8	7
119	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
118	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
117	One-shot battery degradation trajectory prediction with deep learning. <i>Journal of Power Sources</i> , <b>2021</b> , 506, 230024	8.9	14

116	A Proximal Atomic Coordination Algorithm for Distributed Optimization. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	8
115	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
114	Fast Parameter Convergence in Adaptive Flight Control <b>2020</b> ,		3
113	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
112	Toward a Retail Market for Distribution Grids. <i>IEEE Transactions on Smart Grid</i> , <b>2020</b> , 11, 4891-4905	10.7	13
111	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
110	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
109	Robust Adaptive Control <b>2020</b> , 1-11		
108	. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 505-520	4.8	7
107	Fast Adaptive Observers for Battery Management Systems. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 776-789	4.8	9
106	. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 3023-3038	5.9	6
105	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
104	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
103	Shared Control Between Adaptive Autopilots and Human Operators for Anomaly Mitigation. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 51, 353-358	0.7	4
102	A systems and control perspective of CPS security. <i>Annual Reviews in Control</i> , <b>2019</b> , 47, 394-411	10.3	122
101	Adaptation in network control systems with hierarchical scheduling. <i>IET Control Theory and Applications</i> , <b>2019</b> , 13, 2775-2782	2.5	1
100	Connections Between Adaptive Control and Optimization in Machine Learning <b>2019</b> ,		6
99	Cumulative Prospect Theory Based Dynamic Pricing for Shared Mobility on Demand Services <b>2019</b> ,		3

98	Transactive Control Approach to Trip Optimization in Electric Railways <b>2019</b> ,		2
97	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
96	Active wave suppression in the interior of a one-dimensional domain. <i>Automatica</i> , <b>2019</b> , 100, 403-406	5.7	3
95	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
94	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
93	. <i>Proceedings of the IEEE</i> , <b>2018</b> , 106, 518-537	14.3	12
92	Adaptive Control of Hypersonic Vehicles in the Presence of Rate Limits <b>2018</b> ,		1
91	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
90	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
89	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
88	Sparse and Distributed Control of Wide-Area Power Systems with Large Communication Delays <b>2018</b> ,		1
87	A Dynamic Framework for Electricity Markets. <i>The IMA Volumes in Mathematics and Its Applications</i> , <b>2018</b> , 129-153	0.5	1
86	A real-time demand response market through a repeated incomplete-information game. <i>Energy</i> , <b>2018</b> , 143, 424-438	7.9	28
85	Design and Stability of Optimal Frequency Control in Power Networks: A Passivity-based Approach <b>2018</b> ,		7
84	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
83	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
82	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
81	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

80	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
79	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	
78	A Dynamic Regulation Market Mechanism for improved financial settlements in wholesale electricity markets <b>2017</b> ,		6
77	Controls for Smart Grids: Architectures and Applications. <i>Proceedings of the IEEE</i> , <b>2017</b> , 105, 2244-2261	14.3	39
76	Experimental validation of adaptive observers for battery management systems <b>2017</b> ,		1
75	Sequential Loop Closure Based Adaptive Output Feedback. <i>IEEE Access</i> , <b>2017</b> , 5, 23436-23451	3.5	3
74	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
73	Bumpless Reengagement Using Shared Control between Human Pilot and Adaptive Autopilot. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 5343-5348	0.7	5
72	Using natural gas reserves to mitigate intermittence of renewables in the day ahead market <b>2017</b> ,		4
71	Optimal control of wind farms for fatigue load minimization <b>2017</b> ,		1
70	Adaptive output-feedback control for a class of multi-input-multi-output plants with applications to very flexible aircraft <b>2016</b> ,		3
69	A new approach to robust adaptive control <b>2016</b> ,		4
68	Emerging research topics in control for smart infrastructures. <i>Annual Reviews in Control</i> , <b>2016</b> , 42, 259-270.	0.3	24
67	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
66	Foundations of Infrastructure-CPS <b>2016</b> ,		7
65	. <i>IEEE Transactions on Sustainable Energy</i> , <b>2016</b> , 7, 875-885	8.2	49
64	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
63	Analysis of slow convergence regions in adaptive systems <b>2016</b> ,		3

62	A practical integration of automatic generation control and Demand Response <b>2016</b> ,		8
61	A model-based dynamic toll pricing strategy for controlling highway traffic <b>2016</b> ,		4
60	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
59	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
58	Application of Smart Infrastructure Systems approach to precision medicine. <i>Applied &amp; Translational Genomics</i> , <b>2015</b> , 7, 40-4		3
57	Matrix regressor adaptive observers for battery management systems <b>2015</b> ,		6
56	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
55	Smart Cities and Control [Technical Activities]. <i>IEEE Control Systems</i> , <b>2015</b> , 35, 20-21	2.9	5
54	Control-oriented modeling and adaptive parameter estimation of a Lithium ion intercalation cell <b>2015</b> ,		1
53	Adaptive output-feedback control for relative degree two systems based on closed-loop reference models <b>2015</b> ,		4
52	A dynamic model of the combined electricity and natural gas markets <b>2015</b> ,		10
51	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	
50	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
49	Delay-aware co-designs for wide-area control of power grids <b>2014</b> ,		7
48	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
47	Demand response in smart grids: Participants, challenges, and a taxonomy <b>2014</b> ,		15
46	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
45	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

44	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
43	Adaptive configuration control of multiple UAVs. <i>Control Engineering Practice</i> , <b>2013</b> , 21, 1043-1052	3.9	26
42	Adaptive systems with closed-loop reference-models, part I: Transient performance <b>2013</b> ,		31
41	Parallelized model predictive control <b>2013</b> ,		11
40	Robust Adaptive Control in the Presence of Unmodeled Dynamics: A Counter to Rohrs's Counterexample <b>2013</b> ,		12
39	Guaranteed delay margins for adaptive systems with state variables accessible <b>2013</b> ,		7
38	A hierarchical transactive control architecture for renewables integration in Smart Grids <b>2012</b> ,		13
37	Topology identification in distribution network with limited measurements <b>2012</b> ,		40
36	Guaranteed delay margins for adaptive control of scalar plants <b>2012</b> ,		13
35	Adaptive switching controllers for systems with hybrid communication protocols <b>2012</b> ,		8
34	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
33	Wholesale energy market in a smart grid: Dynamic modeling and stability <b>2011</b> ,		23
32	Adaptive control of a Networked Control System with hierarchical scheduling <b>2011</b> ,		8
31	An adaptive reset control system for flight safety in the presence of actuator anomalies <b>2010</b> ,		2
30	Adaptive control of hypersonic vehicles in presence of aerodynamic and center of gravity uncertainties <b>2010</b> ,		11
29	Adaptive Control and the NASA X-15-3 Flight Revisited. <i>IEEE Control Systems</i> , <b>2010</b> , 30, 32-48	2.9	96
28	Adaptive Control of Quadrotor UAVs in the Presence of Actuator Uncertainties <b>2010</b> ,		22
27	The effect of a smart meter on congestion and stability in a power market <b>2010</b> ,		12

26	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
25	Adaptive posicast controller for time-delay systems with relative degree . <i>Automatica</i> , <b>2010</b> , 46, 279-289	5.7	65
24	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
23	An adaptive control technology for safety of a GTM-like aircraft <b>2009</b> ,		6
22	A robust environment for simulation and testing of adaptive control for mini-UAVs <b>2009</b> ,		10
21	Adaptive control of hypersonic vehicles in the presence of modeling uncertainties <b>2009</b> ,		46
20	. <i>IEEE Journal of Oceanic Engineering</i> , <b>2008</b> , 33, 563-578	3.3	24
19	Adaptive control and the NASA X-15 program: A concise history, lessons learned, and a provably correct design <b>2008</b> ,		8
18	Automotive Powertrain Control Problems Involving Time Delay: An Adaptive Control Approach <b>2008</b> ,		7
17	Adaptive control of time-varying systems with gain-scheduling <b>2008</b> ,		9
16	Synchronization control for physics-based collaborative virtual environments with shared haptics. <i>Advanced Robotics</i> , <b>2007</b> , 21, 1001-1029	1.7	6
15	Adaptive Flight Control in the Presence of Multiple Actuator Anomalies. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	6
14	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
13	A Polynomial Adaptive Controller for Nonlinearly Parameterized Systems <b>2006</b> ,		2
12	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
11	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
10	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
9	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

8	Adaptive control of nonlinearly parameterized systems with a triangular structure. <i>Automatica</i> , <b>2002</b> , 38, 115-123	5.7	60
7	Heat release dynamics modeling of kinetically controlled burning. <i>Combustion and Flame</i> , <b>2002</b> , 128, 217-231	5.3	19
6	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
5	Adaptive control of continuous time systems with convex/concave parametrization. <i>Automatica</i> , <b>1998</b> , 34, 33-49	5.7	148
4	Stable Neural Controllers for Nonlinear Dynamic Systems. <i>Automatica</i> , <b>1998</b> , 34, 641-650	5.7	24
3	Persistent excitation in adaptive systems. <i>International Journal of Control</i> , <b>1987</b> , 45, 127-160	1.5	186
2	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
1	Error Models for Stable Hybrid Adaptive Systems <b>1983</b> ,		2