Claudio De Persis

List of Publications by Year
in descending order

78 papers	3,305 citations	236925 25 h-index	189892 50 g-index
78 all docs	78 docs citations	78 times ranked	1797 citing authors

#	Article	IF	Citations
1	Input-to-State Stabilizing Control Under Denial-of-Service. IEEE Transactions on Automatic Control, 2015, 60, 2930-2944.	5.7	875
2	Formulas for Data-Driven Control: Stabilization, Optimality, and Robustness. IEEE Transactions on Automatic Control, 2020, 65, 909-924.	5.7	365
3	An internal model approach to (optimal) frequency regulation in power grids with time-varying voltages. Automatica, 2016, 64, 240-253.	5.0	145
4	A Robust Consensus Algorithm for Current Sharing and Voltage Regulation in DC Microgrids. IEEE Transactions on Control Systems Technology, 2019, 27, 1583-1595.	5.2	119
5	A Unifying Energy-Based Approach to Stability of Power Grids With Market Dynamics. IEEE Transactions on Automatic Control, 2017, 62, 2612-2622.	5.7	118
6	Robust Self-Triggered Coordination With Ternary Controllers. IEEE Transactions on Automatic Control, 2013, 58, 3024-3038.	5.7	109
7	Willemsâ€™ Fundamental Lemma for State-Space Systems and Its Extension to Multiple Datasets. , 2020, 4, 602-607.		109
8	A Jamming-Resilient Algorithm for Self-Triggered Network Coordination. IEEE Transactions on Control of Network Systems, 2018, 5, 981-990.	3.7	88
9	A power consensus algorithm for DC microgrids. Automatica, 2018, 89, 364-375.	5.0	77
10	Dynamic coupling design for nonlinear output agreement and time-varying flow control. Automatica, 2015, 51, 210-222.	5.0	74
11	Bregman Storage Functions for Microgrid Control. IEEE Transactions on Automatic Control, 2018, 63, 53-68.	5.7	61
12	Distributed averaging integral Nash equilibrium seeking on networks. Automatica, 2019, 110, 108548.	5.0	61
13	Networked Control Under DoS Attacks: Tradeoffs Between Resilience and Data Rate. IEEE Transactions on Automatic Control, 2021, 66, 460-467.	5.7	59
14	On the Internal Model Principle in the Coordination of Nonlinear Systems. IEEE Transactions on Control of Network Systems, 2014, 1, 272-282.	3.7	56
15	Low-complexity learning of Linear Quadratic Regulators from noisy data. Automatica, 2021, 128, 109548.	5.0	56
16	Robust Decentralized Secondary Frequency Control in Power Systems: Merits and Tradeoffs. IEEE Transactions on Automatic Control, 2019, 64, 3967-3982.	5.7	55
17	A Lyapunov Redesign of Coordination Algorithms for Cyber-Physical Systems. IEEE Transactions on Automatic Control, 2017, 62, 808-823.	5.7	53
18	Continuous-Time Integral Dynamics for a Class of Aggregative Games With Coupling Constraints. IEEE Transactions on Automatic Control, 2020, 65, 2171-2176.	5.7	43

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19	Passivity-Based Design of Sliding Modes for Optimal Load Frequency Control. IEEE Transactions on Control Systems Technology, 2019, 27, 1893-1906.	5.2	42
20	Distributed Optimal Load Frequency Control with Non-Passive Dynamics. IEEE Transactions on Control of Network Systems, 2018, 5, 1232-1244.	3.7	40
21	Data-Driven Stabilization of Nonlinear Polynomial Systems With Noisy Data. IEEE Transactions on Automatic Control, 2022, 67, 4210-4217.	5.7	39
22	Robust decentralized output regulation with single or multiple reference signals for uncertain heterogeneous systems. International Journal of Robust and Nonlinear Control, 2015, 25, 1399-1422.	3.7	34
23	Data-based stabilization of unknown bilinear systems with guaranteed basin of attraction. Systems and Control Letters, 2020, 145, 104788.	2.3	34
24	Resilience against misbehaving nodes in asynchronous networks. Automatica, 2019, 104, 26-33.	5.0	30
25	Robust load frequency control of nonlinear power networks. International Journal of Control, 2020, 93, 346-359.	1.9	29
26	A Lyapunov approach to control of microgrids with a network-preserved differential-algebraic model. , 2016, , .		28
27	Optimized Thermal-Aware Job Scheduling and Control of Data Centers. IEEE Transactions on Control Systems Technology, 2019, 27, 760-771.	5.2	28
28	Self-triggered coordination over a shared network under Denial-of-Service. , 2015, , .		26
29	Trade-offs in learning controllers from noisy data. Systems and Control Letters, 2021, 154, 104985.	2.3	26
30	On resilient control of nonlinear systems under Denial-of-Service. , 2014, , .		24
31	Agreeing in networks: Unmatched disturbances, algebraic constraints and optimality. Automatica, 2017, 75, 63-74.	5.0	19
32	Distributed Second Order Sliding Modes for Optimal Load Frequency Control. , 2017, , .		18
33	A Comparison Among Deterministic Packet-Dropouts Models in Networked Control Systems. , 2018, 2, 109-114.		18
34	A Novel Reduced Model for Electrical Networks With Constant Power Loads. IEEE Transactions on Automatic Control, 2018, 63, 1288-1299.	5.7	18
35	A Feedback Control Algorithm to Steer Networks to a Cournotâ€“Nash Equilibrium. IEEE Transactions on Control of Network Systems, 2019, 6, 1486-1497.	3.7	18
36	Disturbance rejection in formation keeping control of nonholonomic wheeled robots. International Journal of Robust and Nonlinear Control, 2016, 26, 3344-3362.	3.7	16

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37	Towards stabilization of distributed systems under denial-of-service. , 2017, , .		16
38	Exponential convergence under distributed averaging integral frequency control. Automatica, 2018, 98, 103-113.	5.0	15
39	Learning control for polynomial systems using sum of squares relaxations. , 2020, , .		14
40	On the internal model principle in formation control and in output synchronization of nonlinear systems. , 2012, , .		13
41	Optimal regulation of flow networks with transient constraints. Automatica, 2019, 104, 141-153.	5.0	13
42	On data-driven stabilization of systems with nonlinearities satisfying quadratic constraints. Systems and Control Letters, 2022, 163, 105206.	2.3	13
43	Direct data-driven model-reference control with Lyapunov stability guarantees. , 2021, , .		13
44	Output agreement in networks with unmatched disturbances and algebraic constraints. , 2015, , .		12
45	Balancing time-varying demand-supply in distribution networks: An internal model approach. , 2013, , .		12
46	Exact formation control with very coarse information. , 2013, , .		11
47	Hybrid Interconnection of Iterative Bidding and Power Network Dynamics for Frequency Regulation and Optimal Dispatch. IEEE Transactions on Control of Network Systems, 2019, 6, 572-585.	3.7	11
48	Designing Experiments for Data-Driven Control of Nonlinear Systems. IFAC-PapersOnLine, 2021, 54, 285-290.	0.9	11
49	Self-triggered rendezvous of gossiping second-order agents. , 2013, , .		10
50	Dynamic Pricing Control for Constrained Distribution Networks With Storage. IEEE Transactions on Control of Network Systems, 2015, 2, 88-97.	3.7	10
51	Networked Control under DoS Attacks: Trade-off between Resilience and Data Rate. , 2019, , .		10
52	Controller Design for Robust Invariance From Noisy Data. IEEE Transactions on Automatic Control, 2023, 68, 636-643.	5.7	10
53	Data-based guarantees of set invariance properties. IFAC-PapersOnLine, 2020, 53, 3953-3958.	0.9	9
54	A networked reduced model for electrical networks with constant power loads. , 2016, , .		8

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55	Robust decentralized output regulation for uncertain heterogeneous systems. , 2012, , .		7
56	Bias Estimation in Sensor Networks. IEEE Transactions on Control of Network Systems, 2020, 7, 1534-1546.	3.7	7
57	Output synchronization of Lur'e-type nonlinear systems in the presence of input disturbances. , 2015, , .		6
58	Distributed dynamics for aggregative games: Robustness and privacy guarantees. International Journal of Robust and Nonlinear Control, 2022, 32, 5048-5069.	3.7	6
59	Further result about dynamic coupling for nonlinear output agreement. , 2014, , .		5
60	Optimal power dispatch in networks of high-dimensional models of synchronous machines. , 2016, , .		5
61	Output Impedance Diffusion Into Lossy Power Lines. IEEE Transactions on Power Systems, 2019, 34, 1659-1668.	6.5	5
62	Frequency-driven market mechanisms for optimal dispatch in power networks. Automatica, 2021, 133, 109861.	5.0	5
63	Continuous-time integral dynamics for aggregative game equilibrium seeking. , 2018, , .		4
64	Self-Triggered Network Coordination Over Noisy Communication Channels. IEEE Transactions on Automatic Control, 2020, 65, 263-270.	5.7	4
65	DC Power Grids With Constant-Power Loadsâ€”Part I: A Full Characterization of Power Flow Feasibility, Long-Term Voltage Stability, and Their Correspondence. IEEE Transactions on Automatic Control, 2023, 68, 2-17.	5.7	4
66	Resilient quantized control under Denial-of-Service: Variable bit rate quantization. Automatica, 2022, 141, 110302.	5.0	4
67	On inter-sampling times for event-triggered large-scale linear systems. , 2013, , .		3
68	Distributed rendez-vous algorithms for a class of cyberphysical systems. , 2015, , .		3
69	Convergence of projected primal-dual dynamics with applications in data centers. IFAC-PapersOnLine, 2018, 51, 88-93.	0.9	3
70	Resilient Control Under Denial-of-Service: Results and Research Directions. Lecture Notes in Control and Information Sciences, 2021, , 41-60.	1.0	3
71	DC Power Grids With Constant-Power Loadsâ€”Part II: Nonnegative Power Demands, Conditions for Feasibility, and High-Voltage Solutions. IEEE Transactions on Automatic Control, 2023, 68, 18-30.	5.7	3
72	Robust decentralized frequency control: A leaky integrator approach. , 2018, , .		2

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73	Resilient Quantized Control under Denial-of-Service with the Application of Variable Bit Rate Quantization. , 2021, , .		2
74	Secondary Frequency Control In Power Systems With Arbitrary Communication Delays. SIAM Journal on Control and Optimization, 2021, 59, 3787-3804.	2.1	1
75	On the benefits of saturating information in consensus networks with noise. Systems and Control Letters, 2020, 137, 104623.	2.3	1
76	Online Data-driven Stabilization of Switched Linear Systems. , 2021, , .		1
77	About disconnected topology and cluster consensusâˆ—â€—This research has been conducted in part under the collaborative project SHERPA (ICT 600958) supported by the European Community under the 7th Framework Programme.. IFAC-PapersOnLine, 2015, 48, 521-526.	0.9	0
78	Broadcasting protocols for coordinating nonlinear network systems. , 2018, , .		0