Daniele Astolfi

List of Publications by Year
in descending order

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47 papers	719 citations	687363 13 h-index	610901 24 g-index
47 all docs	47 docs citations	47 times ranked	283 citing authors

#	Article	IF	Citations
1	A High-Gain Nonlinear Observer With Limited Gain Power. IEEE Transactions on Automatic Control, 2015, 60, 3059-3064.	5.7	149
2	Low-power peaking-free high-gain observers. Automatica, 2018, 98, 169-179.	5.0	59
3	Integral Action in Output Feedback for Multi-Input Multi-Output Nonlinear Systems. IEEE Transactions on Automatic Control, 2017, 62, 1559-1574.	5.7	51
4	Observer design for continuous-time dynamical systems. Annual Reviews in Control, 2022, 53, 224-248.	7.9	49
5	High-gain observers with limited gain power for systems with observability canonical form. Automatica, 2017, 75, 16-23.	5.0	34
6	Sensitivity to High-Frequency Measurement Noise of Nonlinear High-Gain Observers. IFAC-PapersOnLine, 2016, 49, 862-866.	0.9	25
7	On the use of low-pass filters in high-gain observers. Systems and Control Letters, 2021, 148, 104856.	2.3	23
8	Low-power peaking-free high-gain observers for nonlinear systems. , 2016, , .		19
9	Repetitive control design based on forwarding for nonlinear minimum-phase systems. Automatica, 2021, 129, 109671.	5.0	18
10	Nonlinear Output Regulation by Post-processing Internal Model for Multi-Input Multi-Output Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 295-300.	0.4	17
11	Synchronization in Networks of Identical Nonlinear Systems via Dynamic Dead Zones. , 2019, 3, 667-672.		16
12	Stubborn and Dead-Zone Redesign for Nonlinear Observers and Filters. IEEE Transactions on Automatic Control, 2021, 66, 667-682.	5.7	16
13	Output feedback stabilization for SISO nonlinear systems with an observer in the original coordinates. , 2013, , .		15
14	Design of local observers for autonomous nonlinear systems not in observability canonical form. Automatica, 2019, 103, 443-449.	5.0	15
15	Output stabilization for a class of nonlinear systems via high-gain observer with limited gain power. IFAC-PapersOnLine, 2015, 48, 730-735.	0.9	14
16	Constrained State Estimation for Nonlinear Systems: A Redesign Approach Based on Convexity. IEEE Transactions on Automatic Control, 2022, 67, 824-839.	5.7	14
17	Stubborn ISS Redesign for Nonlinear High-Gain Observers. IFAC-PapersOnLine, 2017, 50, 15422-15427.	0.9	13
18	Multipattern Output Consensus in Networks of Heterogeneous Nonlinear Agents With Uncertain Leader: A Nonlinear Regression Approach. IEEE Transactions on Automatic Control, 2018, 63, 2581-2587.	5.7	13

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19	Uniting Observers. IEEE Transactions on Automatic Control, 2020, 65, 2867-2882.	5.7	13
20	Robust Control of a Class of Bilinear Systems by Forwarding: Application to Counter Current Heat Exchanger. IFAC-PapersOnLine, 2020, 53, 11515-11520.	0.9	13
21	Approximate regulation for nonlinear systems in presence of periodic disturbances. , 2015, , .		12
22	Output Injection Filtering Redesign in High-Gain Observers. , 2018, , .		11
23	Forwarding techniques for the global stabilization of dissipative infinite-dimensional systems coupled with an ODE. Mathematics of Control, Signals, and Systems, 2021, 33, 755-774.	2.3	11
24	About Robustness of Internal Model-Based Control for Linear and Nonlinear Systems. , 2018, , .		10
25	Francis-Wonham nonlinear viewpoint in output regulation of minimum phase systems. IFAC-PapersOnLine, 2019, 52, 532-537.	0.9	10
26	Emulation-based output regulation of linear networked control systems subject to scheduling and uncertain transmission intervals. IFAC-PapersOnLine, 2019, 52, 526-531.	0.9	8
27	Robust internal model design by nonlinear regression via low-power high-gain observers. , 2016, , .		7
28	Emulation-based semiglobal output regulation of minimum phase nonlinear systems with sampled measurements. , 2018, , .		7
29	Synchronization of interconnected linear systems via dynamic saturation redesign. IFAC-PapersOnLine, 2019, 52, 622-627.	0.9	6
30	Observer design via interconnections of secondâ€order mixed slidingâ€mode/linear differentiators. International Journal of Robust and Nonlinear Control, 2021, 31, 3631-3657.	3.7	6
31	Nonlinear robust periodic output regulation of minimum phase systems. Mathematics of Control, Signals, and Systems, 2022, 34, 129-184.	2.3	6
32	Sufficient metric conditions for synchronization of leader-connected homogeneous nonlinear multi-agent systems. IFAC-PapersOnLine, 2021, 54, 412-417.	0.9	6
33	Uniting local and global observers for the state estimation of nonlinear continuous-time systems. , 2017, , .		5
34	Harmonic internal models for structurally robust periodic output regulation. Systems and Control Letters, 2022, 161, 105154.	2.3	5
35	Integral action for uncertain switched affine systems with application to DC/DC converters. , 2018, , .		4
36	Output Regulation via Low-Power Construction. Lecture Notes in Control and Information Sciences, 2017, , 143-165.	1.0	4

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37	Output-feedback repetitive control for minimum-phase nonlinear systems with arbitrarily relative degree. IFAC-PapersOnLine, 2021, 54, 464-469.	0.9	4
38	Forwarding design for stabilization of a coupled transport equation-ODE with a cone-bounded input nonlinearity. , 2020, , .		3
39	A Note on Observability Canonical Forms for Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 436-438.	0.4	2
40	Redesign of discrete-time nonlinear observers with state estimate constrained in prescribed convex set. IFAC-PapersOnLine, 2019, 52, 454-459.	0.9	2
41	Robust Output Set-Point Tracking for a Power Flow Controller via Forwarding Design. , 2021, , .		2
42	Supervised Output Regulation via Iterative Learning Control for Rejecting Unknown Periodic Disturbances. IFAC-PapersOnLine, 2020, 53, 1427-1432.	0.9	1
43	Mixing sliding mode and linear differentiators for 2nd and 3rd order systems. IFAC-PapersOnLine, 2020, 53, 5093-5098.	0.9	1
44	Stabilization of nonlinear systems in presence of filtered output via extended high-gain observers. Automatica, 2019, 110, 108594.	5.0	0
45	Low-Power High-Gain Observers. , 2021, , 1158-1165.		0
46	Low-Power High-Gain Observers. , 2020, , 1-8.		0
47	Adaptive low-power high-gain observers for lower-triangular systems with input-dependent Lipschitz constant. IFAC-PapersOnLine, 2020, 53, 4904-4909.	0.9	0