

Stefano Battilotti

List of Publications by Year in descending order

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papers

781
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84
all docs

84
docs citations

84
times ranked

411
citing authors

#	ARTICLE	IF	CITATIONS
1	Global output regulation and disturbance attenuation with global stability via measurement feedback for a class of nonlinear systems. IEEE Transactions on Automatic Control, 1996, 41, 315-327.	3.6	73
2	Robust stabilization of nonlinear systems with pointwise norm-bounded uncertainties: a control Lyapunov function approach. IEEE Transactions on Automatic Control, 1999, 44, 3-17.	3.6	35
3	Distributed Kalman Filtering Over Sensor Networks With Unknown Random Link Failures. , 2018, 2, 587-592.		35
4	Global set point control via link position measurement for flexible joint robots. Systems and Control Letters, 1995, 25, 21-29.	1.3	30
5	A unifying framework for the semiglobal stabilization of nonlinear uncertain systems via measurement feedback. IEEE Transactions on Automatic Control, 2001, 46, 3-16.	3.6	27
6	Asymptotically optimal consensus-based distributed filtering of continuous-time linear systems. Automatica, 2020, 122, 109189.	3.0	27
7	Adaptive disturbance attenuation with global stability for rigid and elastic joint robots. Automatica, 1997, 33, 239-243.	3.0	25
8	Stabilization in probability of nonlinear stochastic systems with guaranteed region of attraction and target set. IEEE Transactions on Automatic Control, 2003, 48, 1585-1599.	3.6	23
9	Distributed estimation for nonlinear systems. Automatica, 2019, 107, 562-573.	3.0	23
10	A note on reduced order stabilizing output feedback controllers. Systems and Control Letters, 1997, 30, 71-81.	1.3	22
11	Robust output feedback control of nonlinear stochastic systems using neural networks. IEEE Transactions on Neural Networks, 2003, 14, 103-116.	4.8	22
12	Robust observer design under measurement noise with gain adaptation and saturated estimates. Automatica, 2017, 81, 75-86.	3.0	18
13	Continuous-Time and Sampled-Data Stabilizers for Nonlinear Systems With Input and Measurement Delays. IEEE Transactions on Automatic Control, 2020, 65, 1568-1583.	3.6	18
14	A stability with optimality analysis of consensus-based distributed filters for discrete-time linear systems. Automatica, 2021, 129, 109589.	3.0	18
15	An architecture for high performance control using digital signal processor chips. Control Systems Magazine, 1990, 10, 20-23.	0.1	16
16	A sufficient condition for nonlinear noninteracting control with stability via dynamic state feedback. IEEE Transactions on Automatic Control, 1991, 36, 1033-1045.	3.6	16
17	Dwell-time controllers for stochastic systems with switching Markov chain. Automatica, 2005, 41, 923-934.	3.0	16
18	Stochastic stabilization of nonlinear systems in feedforward form with noisy outputs. IEEE Transactions on Automatic Control, 2005, 50, 100-105.	3.6	16

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19	On the Role of Passivity and Output Injection in the Output Feedback Stabilisation Problem: Application to Robot Control. <i>European Journal of Control</i> , 1997, 3, 92-103.	1.6	14
20	A new separation result for a class of quadratic-like systems with application to Euler-Lagrange models. <i>Automatica</i> , 2003, 39, 1085-1093.	3.0	14
21	Nonlinear predictors for systems with bounded trajectories and delayed measurements. <i>Automatica</i> , 2015, 59, 127-138.	3.0	14
22	Semiglobal Stabilization of Uncertain Block-Feedforward Systems Via Measurement Feedback. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998, 31, 333-338.	0.4	13
23	Incremental Generalized Homogeneity, Observer Design and Semiglobal Stabilization. <i>Asian Journal of Control</i> , 2014, 16, 498-508.	1.9	13
24	Stochastic output delay identification of discrete-time Gaussian systems. <i>Automatica</i> , 2019, 109, 108499.	3.0	13
25	Control over a communication channel with random noise and delays. <i>Automatica</i> , 2008, 44, 348-360.	3.0	11
26	Kalman-like filtering with intermittent observations and non-Gaussian noise. <i>IFAC-PapersOnLine</i> , 2019, 52, 61-66.	0.5	11
27	Robust output feedback stabilization via a small gain theorem. <i>International Journal of Robust and Nonlinear Control</i> , 1998, 8, 211-229.	2.1	10
28	Lyapunov Design of Global Measurement Feedback Controllers for Nonlinear Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001, 34, 1475-1479.	0.4	10
29	Control of linear systems with measurement nonlinearities. <i>IEEE Transactions on Automatic Control</i> , 2005, 50, 1872-1877.	3.6	10
30	Lyapunov-Based Design of iISS Feedforward Systems with Uncertainty and Noisy Measurements. <i>SIAM Journal on Control and Optimization</i> , 2007, 46, 84-115.	1.1	10
31	Cooperative Filtering with Absolute and Relative Measurements. , 2018, , .		10
32	Stabilization via dynamic output feedback for systems with output nonlinearities. <i>Systems and Control Letters</i> , 1994, 23, 411-419.	1.3	9
33	A Q-Learning based approach to Quality of Experience control in cognitive Future Internet networks. , 2015, , .		9
34	LQ Non-Gaussian Regulator With Markovian Control. , 2019, 3, 679-684.		9
35	Sufficient conditions for global robust stabilization via measurement feedback for some classes of nonlinear systems. , 0, , .		8
36	On output feedback tracking control with disturbance attenuation for Euler-Lagrange systems. , 0, , .		8

#	ARTICLE	IF	CITATIONS
37	A constructive condition for dynamic feedback linearization. Systems and Control Letters, 2004, 52, 329-338.	1.3	8
38	Noninteracting control with stability for a class of nonlinear systems. Systems and Control Letters, 1991, 17, 327-338.	1.3	7
39	A sufficient condition for non-linear non-interacting control with stability via dynamic state-feedback: block-partitioned outputs. International Journal of Control, 1992, 55, 1141-1160.	1.2	7
40	Noninteracting control via static measurement feedback for nonlinear systems with relative degree. IEEE Transactions on Automatic Control, 1999, 44, 774-779.	3.6	7
41	Generalized dilations and the stabilization of uncertain systems via measurement feedback. Systems and Control Letters, 2001, 43, 95-100.	1.3	7
42	Multilayer State Predictors for Nonlinear Systems with Time-Varying Measurement Delays. SIAM Journal on Control and Optimization, 2019, 57, 1541-1566.	1.1	7
43	Sufficient conditions for global output regulation of nonlinear interconnected systems. Automatica, 1999, 35, 829-835.	3.0	6
44	Leader-following consensus for nonlinear agents with measurement feedback. International Journal of Robust and Nonlinear Control, 2019, 29, 1694-1718.	2.1	6
45	Universal controllers for robust control problems. Mathematics of Control, Signals, and Systems, 1997, 10, 188-202.	1.4	5
46	Measurement feedback controllers with constraints and their relation to the solution of hamilton jacobi inequalities. , 0, , .		5
47	Generalized incremental homogeneity, incremental observability and global observer design. , 2011, , .		5
48	A Unified Approach to Global Set Point Control for Rigid and Elastic Joint Robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 55-60.	0.4	4
49	Stabilization in Probability of Nonlinear Stochastic Systems with Guaranteed Cost. SIAM Journal on Control and Optimization, 2002, 40, 1938-1964.	1.1	4
50	An Improved Approach to the LQ non-Gaussian Regulator Problem. IFAC-PapersOnLine, 2017, 50, 11808-11813.	0.5	4
51	Robust Detectability From the Measurements Plus State Feedback Stabilization Imply Semiglobal Stabilization From the Measurements. IEEE Transactions on Automatic Control, 2006, 51, 1542-1547.	3.6	3
52	Filtered Lyapunov Functions and Their Applications in the Stability Analysis and Control of Nonlinear Systems. IEEE Transactions on Automatic Control, 2008, 53, 434-439.	3.6	3
53	Observer design for nonlinear systems with Markov chain. International Journal of Robust and Nonlinear Control, 2009, 19, 1603-1631.	2.1	3
54	Distributed Workload Control for Federated Service Discovery. Procedia Computer Science, 2015, 56, 233-241.	1.2	3

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55	Stabilization Via Generalized Homogeneous Approximations. IEEE Transactions on Automatic Control, 2017, 62, 3510-3517.	3.6	3
56	Further results on dynamic feedback linearization. , 2003, , .		3
57	Necessary conditions for nonlinear block noninteracting control with stability via dynamic state-feedback. Systems and Control Letters, 1992, 19, 481-491.	1.3	2
58	Stabilization of Nonlinear Systems with Norm Bounded Uncertainties. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 2002-2007.	0.4	2
59	A separation result for systems with feedback constraints. Systems and Control Letters, 2006, 55, 369-375.	1.3	2
60	Semiglobal Leader-Following consensus for generalized homogenous agents. , 2015, , .		2
61	A Future Internet interface to control programmable networks. , 2015, , .		2
62	Distributed infinite-horizon optimal control of continuous-time linear systems over network. International Journal of Robust and Nonlinear Control, 2021, 31, 2082-2096.	2.1	2
63	Performance Optimization via Sequential Processing for Nonlinear State Estimation of Noisy Systems. IEEE Transactions on Automatic Control, 2022, 67, 2957-2972.	3.6	2
64	Noninteracting control with stability for a class of nonlinear systems. Systems and Control Letters, 1991, 17, 327-338.	1.3	2
65	A sufficient condition for nonlinear noninteracting control with stability via dynamic state-feedback. , 1990, , .		1
66	A NEW SEPARATION RESULT FOR EULER-LAGRANGE-LIKE SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 247-252.	0.4	1
67	Constructive Lyapunov design of dynamic state feedback controllers. , 2008, , .		1
68	Filtered Lyapunov functions and the stabilization of block feedforward systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3415-3420.	0.4	1
69	Incremental generalized homogeneity of nonlinear systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4648-4653.	0.4	1
70	Nonlinear predictors for systems with bounded trajectories and delayed measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6812-6817.	0.4	1
71	On the geometric interpretation of the Polynomial Lie Bracket for nonlinear time-delay systems. , 2016, , .		1
72	Distributed estimation for feedback-linearizable nonlinear systems. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
73	An orbital symmetry-based approach to observer design for systems with disturbances. , 2021, , .		1
74	Noninteraction and Stability via Invertible Feedback Laws and Some Existence Conditions. SIAM Journal on Control and Optimization, 1995, 33, 107-125.	1.1	0
75	Discussion on "Stabilization for Continuum Models of Large Space Structures in Large Attitude Maneuvers" by S. Di Gennaro and A. De Santis. European Journal of Control, 2002, 8, 373-374.	1.6	0
76	Robust detectability from the measurements plus state feedback stabilization imply semiglobal stabilization from the measurements. , 2006, , .		0
77	State estimation of nonlinear systems with Markov state reset. , 2008, , .		0
78	Stabilization of Nonlinear Systems with Filtered Lyapunov Functions and Feedback Passivation. Asian Journal of Control, 2012, 14, 924-935.	1.9	0
79	Generalized homogeneous approximations and the global stabilization problem of nonlinear systems. , 2014, , .		0
80	Robust observer design under measurement noise. IFAC-PapersOnLine, 2017, 50, 2782-2787.	0.5	0
81	Delay-State Dynamics to Filtering Gaussian Systems with Markovian Delayed Measurements. , 2019, , .		0
82	LQ non-Gaussian Control with I/O packet losses. , 2020, , .		0
83	Sampled-data output feedback controllers for nonlinear systems with time-varying measurement and control delays. IFAC-PapersOnLine, 2020, 53, 3614-3619.	0.5	0