Stefano Battilotti

List of Publications by Year
in descending order

83 papers	781 citations	567281 15 h-index	677142 22 g-index
84 all docs	84 docs citations	84 times ranked	411 citing authors

#	Article	IF	Citations
1	Performance Optimization via Sequential Processing for Nonlinear State Estimation of Noisy Systems. IEEE Transactions on Automatic Control, 2022, 67, 2957-2972.	5.7	2
2	Distributed infinite‐horizon optimal control of continuous‐time linear systems over network. International Journal of Robust and Nonlinear Control, 2021, 31, 2082-2096.	3.7	2
3	A stability with optimality analysis of consensus-based distributed filters for discrete-time linear systems. Automatica, 2021, 129, 109589.	5.0	18
4	An orbital symmetry-based approach to observer design for systems with disturbances. , 2021, , .		1
5	Continuous-Time and Sampled-Data Stabilizers for Nonlinear Systems With Input and Measurement Delays. IEEE Transactions on Automatic Control, 2020, 65, 1568-1583.	5.7	18
6	Asymptotically optimal consensus-based distributed filtering of continuous-time linear systems. Automatica, 2020, 122, 109189.	5.0	27
7	LQ non-Gaussian Control with I/O packet losses. , 2020, , .		0
8	Sampled-data output feedback controllers for nonlinear systems with time-varying measurement and control delays. IFAC-PapersOnLine, 2020, 53, 3614-3619.	0.9	0
9	LQ Non-Gaussian Regulator With Markovian Control. , 2019, 3, 679-684.		9
10	Distributed estimation for nonlinear systems. Automatica, 2019, 107, 562-573.	5.0	23
11	Stochastic output delay identification of discrete-time Gaussian systems. Automatica, 2019, 109, 108499.	5.0	13
12	Multilayer State Predictors for Nonlinear Systems with Time-Varying Measurement Delays. SIAM Journal on Control and Optimization, 2019, 57, 1541-1566.	2.1	7
13	Delay-State Dynamics to Filtering Gaussian Systems with Markovian Delayed Measurements. , 2019, , .		0
14	Kalman-like filtering with intermittent observations and non-Gaussian noise. IFAC-PapersOnLine, 2019, 52, 61-66.	0.9	11
15	Leader‐following consensus for nonlinear agents with measurement feedback. International Journal of Robust and Nonlinear Control, 2019, 29, 1694-1718.	3.7	6
16	Cooperative Filtering with Absolute and Relative Measurements. , 2018, , .		10
17	Distributed Kalman Filtering Over Sensor Networks With Unknown Random Link Failures. , 2018, 2, 587-592.		35
18	Robust observer design under measurement noise with gain adaptation and saturated estimates. Automatica, 2017, 81, 75-86.	5.0	18

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19	Stabilization Via Generalized Homogeneous Approximations. IEEE Transactions on Automatic Control, 2017, 62, 3510-3517.	5.7	3
20	An Improved Approach to the LQ non-Gaussian Regulator Problem. IFAC-PapersOnLine, 2017, 50, 11808-11813.	0.9	4
21	Robust observer design under measurement noise. IFAC-PapersOnLine, 2017, 50, 2782-2787.	0.9	0
22	On the geometric interpretation of the Polynomial Lie Bracket for nonlinear time-delay systems. , 2016, , .		1
23	Distributed estimation for feedback-linearizable nonlinear systems. , 2016, , .		1
24	Distributed Workload Control for Federated Service Discovery. Procedia Computer Science, 2015, 56, 233-241.	2.0	3
25	Semiglobal Leader-Following consensus for generalized homogenous agents. , 2015, , .		2
26	A Q-Learning based approach to Quality of Experience control in cognitive Future Internet networks. , 2015, , .		9
27	Nonlinear predictors for systems with bounded trajectories and delayed measurements. Automatica, 2015, 59, 127-138.	5.0	14
28	A Future Internet interface to control programmable networks. , 2015, , .		2
29	Incremental Generalized Homogeneity, Observer Design and Semiglobal Stabilization. Asian Journal of Control, 2014, 16, 498-508.	3.0	13
30	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
31	Generalized homogeneous approximations and the global stabilization problem of nonlinear systems. , 2014, , .		0
32	Stabilization of Nonlinear Systems with Filtered Lyapunov Functions and Feedback Passivation. Asian Journal of Control, 2012, 14, 924-935.	3.0	0
33	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
34	Incremental generalized homogeneity of nonlinear systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4648-4653.	0.4	1
35	Generalized incremental homogeneity, incremental observability and global observer design. , 2011, , .		5
36	Observer design for nonlinear systems with Markov chain. International Journal of Robust and Nonlinear Control, 2009, 19, 1603-1631.	3.7	3

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37	Control over a communication channel with random noise and delays. Automatica, 2008, 44, 348-360.	5.0	11
38	Constructive Lyapunov design of dynamic state feedback controllers. , 2008, , .		1
39	Filtered Lyapunov Functions and Their Applications in the Stability Analysis and Control of Nonlinear Systems. IEEE Transactions on Automatic Control, 2008, 53, 434-439.	5.7	3
40	State estimation of nonlinear systems with Markov state reset. , 2008, , .		0
41	Lyapunovâ€Based Design of iISS Feedforward Systems with Uncertainty and Noisy Measurements. SIAM Journal on Control and Optimization, 2007, 46, 84-115.	2.1	10
42	A separation result for systems with feedback constraints. Systems and Control Letters, 2006, 55, 369-375.	2.3	2
43	Robust Detectability From the Measurements Plus State Feedback Stabilization Imply Semiglobal Stabilization From the Measurements. IEEE Transactions on Automatic Control, 2006, 51, 1542-1547.	5.7	3
44	Robust detectability from the measurements plus state feedback stabilization imply semiglobal stabilization from the measurements. , 2006, , .		0
45	Dwell-time controllers for stochastic systems with switching Markov chain. Automatica, 2005, 41, 923-934.	5.0	16
46	Stochastic stabilization of nonlinear systems in feedforward form with noisy outputs. IEEE Transactions on Automatic Control, 2005, 50, 100-105.	5.7	16
47	Control of linear systems with measurement nonlinearities. IEEE Transactions on Automatic Control, 2005, 50, 1872-1877.	5.7	10
48	A constructive condition for dynamic feedback linearization. Systems and Control Letters, 2004, 52, 329-338.	2.3	8
49	A new separation result for a class of quadratic-like systems with application to Eulerâ€"Lagrange models. Automatica, 2003, 39, 1085-1093.	5.0	14
50	Robust output feedback control of nonlinear stochastic systems using neural networks. IEEE Transactions on Neural Networks, 2003, 14, 103-116.	4.2	22
51	Stabilization in probability of nonlinear stochastic systems with guaranteed region of attraction and target set. IEEE Transactions on Automatic Control, 2003, 48, 1585-1599.	5.7	23
52	Further results on dynamic feedback linearization. , 2003, , .		3
53	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
54	Discussion on â€˜Stabilization for Continuum Models of Large Space Structures in Large Attitude Maneuversâ€™ by S. Di Gennaro and A. De Santis. European Journal of Control, 2002, 8, 373-374.	2.6	0

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55	Stabilization in Probability of Nonlinear Stochastic Systems with Guaranteed Cost. SIAM Journal on Control and Optimization, 2002, 40, 1938-1964.	2.1	4
56	Lyapunov Design of Global Measurement Feedback Controllers for Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 1475-1479.	0.4	10
57	Generalized dilations and the stabilization of uncertain systems via measurement feedback. Systems and Control Letters, 2001, 43, 95-100.	2.3	7
58	A unifying framework for the semiglobal stabilization of nonlinear uncertain systems via measurement feedback. IEEE Transactions on Automatic Control, 2001, 46, 3-16.	5.7	27
59	Robust stabilization of nonlinear systems with pointwise norm-bounded uncertainties: a control Lyapunov function approach. IEEE Transactions on Automatic Control, 1999, 44, 3-17.	5.7	35
60	Sufficient conditions for global output regulation of nonlinear interconnected systems. Automatica, 1999, 35, 829-835.	5.0	6
61	Noninteracting control via static measurement feedback for nonlinear systems with relative degree. IEEE Transactions on Automatic Control, 1999, 44, 774-779.	5.7	7
62	Robust output feedback stabilization via a small gain theorem. International Journal of Robust and Nonlinear Control, 1998, 8, 211-229.	3.7	10
63	Semiglobal Stabilization of Uncertain Block-Feedforward Systems Via Measurement Feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 333-338.	0.4	13
64	On the Role of Passivity and Output Injection in the Output Feedback Stabilisation Problem: Application to Robot Control. European Journal of Control, 1997, 3, 92-103.	2.6	14
65	Adaptive disturbance attenuation with global stability for rigid and elastic joint robots. Automatica, 1997, 33, 239-243.	5.0	25
66	Universal controllers for robust control problems. Mathematics of Control, Signals, and Systems, 1997, 10, 188-202.	2.3	5
67	A note on reduced order stabilizing output feedback controllers. Systems and Control Letters, 1997, 30, 71-81.	2.3	22
68	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.	5.7	73
69	Stabilization of Nonlinear Systems with Norm Bounded Uncertainties. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 2002-2007.	0.4	2
70	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
71	Global set point control via link position measurement for flexible joint robots. Systems and Control Letters, 1995, 25, 21-29.	2.3	30
72	Noninteraction and Stability via Invertible Feedback Laws and Some Existence Conditions. SIAM Journal on Control and Optimization, 1995, 33, 107-125.	2.1	0

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73	Stabilization via dynamic output feedback for systems with output nonlinearities. Systems and Control Letters, 1994, 23, 411-419.	2.3	9
74	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.	1.9	7
75	Necessary conditions for nonlinear block noninteracting control with stability via dynamic state-feedback. Systems and Control Letters, 1992, 19, 481-491.	2.3	2
76	A sufficient condition for nonlinear noninteracting control with stability via dynamic state feedback. IEEE Transactions on Automatic Control, 1991, 36, 1033-1045.	5.7	16
77	Noninteracting control with stability for a class of nonlinear systems. Systems and Control Letters, 1991, 17, 327-338.	2.3	7
78	Noninteracting control with stability for a class of nonlinear systems. Systems and Control Letters, 1991, 17, 327-338.	2.3	2
79	An architecture for high performance control using digital signal processor chips. Control Systems Magazine, 1990, 10, 20-23.	0.0	16
80	A sufficient condition for nonlinear noninteracting control with stability via dynamic state-feedback. , 1990, , .		1
81	Sufficient conditions for global robust stabilization via measurement feedback for some classes of nonlinear systems. , 0, , .		8
82	On output feedback tracking control with disturbance attenuation for Euler-Lagrange systems. , 0, , .		8
83	Measurement feedback controllers with constraints and their relation to the solution of hamilton jacobi inequalities. , 0, , .		5