

# Stefano Battilotti

## List of Publications by Citations

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77  
papers

493  
citations

12  
h-index

17  
g-index

84  
ext. papers

649  
ext. citations

3.4  
avg, IF

4.44  
L-index

#	Paper	IF	Citations
77	Global output regulation and disturbance attenuation with global stability via measurement feedback for a class of nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , <b>1996</b> , 41, 315-327	5.9	56
76	Robust stabilization of nonlinear systems with pointwise norm-bounded uncertainties: a control Lyapunov function approach. <i>IEEE Transactions on Automatic Control</i> , <b>1999</b> , 44, 3-17	5.9	25
75	Global set point control via link position measurement for flexible joint robots. <i>Systems and Control Letters</i> , <b>1995</b> , 25, 21-29	2.4	20
74	. <i>IEEE Transactions on Automatic Control</i> , <b>2001</b> , 46, 3-16	5.9	19
73	<b>2018</b> , 2, 587-592		17
72	Adaptive disturbance attenuation with global stability for rigid and elastic joint robots. <i>Automatica</i> , <b>1997</b> , 33, 239-243	5.7	17
71	A note on reduced order stabilizing output feedback controllers. <i>Systems and Control Letters</i> , <b>1997</b> , 30, 71-81	2.4	17
70	Robust output feedback control of nonlinear stochastic systems using neural networks. <i>IEEE Transactions on Neural Networks</i> , <b>2003</b> , 14, 103-16		17
69	Stabilization in probability of nonlinear stochastic systems with guaranteed region of attraction and target set. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 1585-1599	5.9	16
68	Distributed estimation for nonlinear systems. <i>Automatica</i> , <b>2019</b> , 107, 562-573	5.7	13
67	Nonlinear predictors for systems with bounded trajectories and delayed measurements. <i>Automatica</i> , <b>2015</b> , 59, 127-138	5.7	12
66	Incremental Generalized Homogeneity, Observer Design and Semiglobal Stabilization. <i>Asian Journal of Control</i> , <b>2014</b> , 16, 498-508	1.7	12
65	A new separation result for a class of quadratic-like systems with application to Euler-Lagrange models. <i>Automatica</i> , <b>2003</b> , 39, 1085-1093	5.7	12
64	Dwell-time controllers for stochastic systems with switching Markov chain. <i>Automatica</i> , <b>2005</b> , 41, 923-934	4.7	12
63	Asymptotically optimal consensus-based distributed filtering of continuous-time linear systems. <i>Automatica</i> , <b>2020</b> , 122, 109189	5.7	12
62	Robust observer design under measurement noise with gain adaptation and saturated estimates. <i>Automatica</i> , <b>2017</b> , 81, 75-86	5.7	11
61	On the Role of Passivity and Output Injection in the Output Feedback Stabilisation Problem: Application to Robot Control. <i>European Journal of Control</i> , <b>1997</b> , 3, 92-103	2.5	11

60	Stochastic stabilization of nonlinear systems in feedforward form with noisy outputs. <i>IEEE Transactions on Automatic Control</i> , <b>2005</b> , 50, 100-105	5.9	11
59	. <i>IEEE Transactions on Automatic Control</i> , <b>1991</b> , 36, 1033-1045	5.9	11
58	. <i>Control Systems Magazine</i> , <b>1990</b> , 10, 20-23		9
57	Continuous-Time and Sampled-Data Stabilizers for Nonlinear Systems With Input and Measurement Delays. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 1568-1583	5.9	9
56	Control of linear systems with measurement nonlinearities. <i>IEEE Transactions on Automatic Control</i> , <b>2005</b> , 50, 1872-1877	5.9	8
55	Control over a communication channel with random noise and delays. <i>Automatica</i> , <b>2008</b> , 44, 348-360	5.7	7
54	Lyapunov-Based Design of iISS Feedforward Systems with Uncertainty and Noisy Measurements. <i>SIAM Journal on Control and Optimization</i> , <b>2007</b> , 46, 84-115	1.9	7
53	Multilayer State Predictors for Nonlinear Systems with Time-Varying Measurement Delays. <i>SIAM Journal on Control and Optimization</i> , <b>2019</b> , 57, 1541-1566	1.9	6
52	A Q-Learning based approach to Quality of Experience control in cognitive Future Internet networks <b>2015</b> ,		6
51	Robust output feedback stabilization via a small gain theorem. <i>International Journal of Robust and Nonlinear Control</i> , <b>1998</b> , 8, 211-229	3.6	6
50	A constructive condition for dynamic feedback linearization. <i>Systems and Control Letters</i> , <b>2004</b> , 52, 329-338		6
49	Stabilization via dynamic output feedback for systems with output nonlinearities. <i>Systems and Control Letters</i> , <b>1994</b> , 23, 411-419	2.4	6
48	A stability with optimality analysis of consensus-based distributed filters for discrete-time linear systems. <i>Automatica</i> , <b>2021</b> , 129, 109589	5.7	6
47	LQ Non-Gaussian Regulator With Markovian Control <b>2019</b> , 3, 679-684		5
46	Sufficient conditions for global output regulation of nonlinear interconnected systems. <i>Automatica</i> , <b>1999</b> , 35, 829-835	5.7	5
45	Noninteracting control via static measurement feedback for nonlinear systems with relative degree. <i>IEEE Transactions on Automatic Control</i> , <b>1999</b> , 44, 774-779	5.9	5
44	A sufficient condition for non-linear non-interacting control with stability via dynamic state-feedback: block-partitioned outputs. <i>International Journal of Control</i> , <b>1992</b> , 55, 1141-1160	1.5	5
43	Stochastic output delay identification of discrete-time Gaussian systems. <i>Automatica</i> , <b>2019</b> , 109, 108499	5.7	4

42	Generalized incremental homogeneity, incremental observability and global observer design <b>2011</b> ,		4
41	Universal controllers for robust control problems. <i>Mathematics of Control, Signals, and Systems</i> , <b>1997</b> , 10, 188-202	1.3	4
40	Generalized dilations and the stabilization of uncertain systems via measurement feedback. <i>Systems and Control Letters</i> , <b>2001</b> , 43, 95-100	2.4	4
39	Semiglobal Stabilization of Uncertain Block-Feedforward Systems Via Measurement Feedback. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1998</b> , 31, 333-338		4
38	Noninteracting control with stability for a class of nonlinear systems. <i>Systems and Control Letters</i> , <b>1991</b> , 17, 327-338	2.4	4
37	Cooperative Filtering with Absolute and Relative Measurements <b>2018</b> ,		4
36	An Improved Approach to the LQ non-Gaussian Regulator Problem. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 11808-11813	1.13	3
35	Filtered Lyapunov Functions and Their Applications in the Stability Analysis and Control of Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 434-439	5.9	3
34	Stabilization in Probability of Nonlinear Stochastic Systems with Guaranteed Cost. <i>SIAM Journal on Control and Optimization</i> , <b>2002</b> , 40, 1938-1964	1.9	3
33	On output feedback tracking control with disturbance attenuation for Euler-Lagrange systems		3
32			3
31	Further results on dynamic feedback linearization <b>2003</b> ,		3
30	A Future Internet interface to control programmable networks <b>2015</b> ,		2
29	Distributed Workload Control for Federated Service Discovery. <i>Procedia Computer Science</i> , <b>2015</b> , 56, 233-241	1.6	2
28	Observer design for nonlinear systems with Markov chain. <i>International Journal of Robust and Nonlinear Control</i> , <b>2009</b> , 19, 1603-1631	3.6	2
27	A separation result for systems with feedback constraints. <i>Systems and Control Letters</i> , <b>2006</b> , 55, 369-375.	1.4	2
26	Lyapunov Design of Global Measurement Feedback Controllers for Nonlinear Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2001</b> , 34, 1475-1479		2
25	Noninteracting control with stability for a class of nonlinear systems. <i>Systems and Control Letters</i> , <b>1991</b> , 17, 327-338	2.4	2

24	Kalman-like filtering with intermittent observations and non-Gaussian noise. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 61-66	0.7	2
23	Leader-following consensus for nonlinear agents with measurement feedback. <i>International Journal of Robust and Nonlinear Control</i> , <b>2019</b> , 29, 1694-1718	3.6	2
22	Nonlinear predictors for systems with bounded trajectories and delayed measurements. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2014</b> , 47, 6812-6817		1
21	Stabilization Via Generalized Homogeneous Approximations. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 3510-3517	5.9	1
20	Semiglobal Leader-Following consensus for generalized homogenous agents <b>2015</b> ,		1
19	Filtered Lyapunov functions and the stabilization of block feedforward systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 3415-3420		1
18	Incremental generalized homogeneity of nonlinear systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 4648-4653		1
17	Constructive Lyapunov design of dynamic state feedback controllers <b>2008</b> ,		1
16	Measurement feedback controllers with constraints and their relation to the solution of Hamilton Jacobi inequalities		1
15	A NEW SEPARATION RESULT FOR EULER-LAGRANGE-LIKE SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2002</b> , 35, 247-252		1
14	Stabilization of Nonlinear Systems with Norm Bounded Uncertainties. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1996</b> , 29, 2002-2007		1
13	A Unified Approach to Global Set Point Control for Rigid and Elastic Joint Robots. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1996</b> , 29, 55-60		1
12	Necessary conditions for nonlinear block noninteracting control with stability via dynamic state-feedback. <i>Systems and Control Letters</i> , <b>1992</b> , 19, 481-491	2.4	1
11	<b>1990</b> ,		1
10	On the geometric interpretation of the Polynomial Lie Bracket for nonlinear time-delay systems <b>2016</b> ,		1
9	. <i>IEEE Transactions on Automatic Control</i> , <b>2006</b> , 51, 1542-1547	5.9	0
8	Distributed infinite-horizon optimal control of continuous-time linear systems over network. <i>International Journal of Robust and Nonlinear Control</i> , <b>2021</b> , 31, 2082-2096	3.6	0
7	Performance optimization via sequential processing for nonlinear state estimation of noisy systems. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	0

- 6 Robust observer design under measurement noise. *IFAC-PapersOnLine*, **2017**, 50, 2782-2787 0.7
- 5 Stabilization of Nonlinear Systems with Filtered Lyapunov Functions and Feedback Passivation. *Asian Journal of Control*, **2012**, 14, 924-935 1.7
- 4 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 2.5
- 3 Noninteraction and Stability via Invertible Feedback Laws and Some Existence Conditions. *SIAM Journal on Control and Optimization*, **1995**, 33, 107-125 1.9
- 2 A Geometric Approach to Dynamic Feedback Linearization **2008**, 397-411
- 1 Sampled-data output feedback controllers for nonlinear systems with time-varying measurement and control delays. *IFAC-PapersOnLine*, **2020**, 53, 3614-3619 0.7