Giordano Pola

List of Publications by Year
in descending order

		623734	580821
44	1,081	14	25
papers	citations	h-index	g-index
44	44	44	440
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Approximately bisimilar symbolic models for nonlinear control systems. Automatica, 2008, 44, 2508-2516.	5.0	234
2	Symbolic Models for Nonlinear Control Systems Without Stability Assumptions. IEEE Transactions on Automatic Control, 2012, 57, 1804-1809.	5.7	201
3	Symbolic Models for Nonlinear Control Systems: Alternating Approximate Bisimulations. SIAM Journal on Control and Optimization, 2009, 48, 719-733.	2.1	120
4	Symbolic Models for Networks of Control Systems. IEEE Transactions on Automatic Control, 2016, 61, 3663-3668.	5.7	76
5	Symbolic models for nonlinear time-delay systems using approximate bisimulations. Systems and Control Letters, 2010, 59, 365-373.	2.3	58
6	Integrated Design of Symbolic Controllers for Nonlinear Systems. IEEE Transactions on Automatic Control, 2012, 57, 534-539.	5.7	44
7	Design of Symbolic Controllers for Networked Control Systems. IEEE Transactions on Automatic Control, 2019, 64, 1034-1046.	5.7	39
8	A structural approach to detectability for a class of hybrid systems. Automatica, 2009, 45, 1202-1206.	5.0	35
9	On Lyapunovâ€"Krasovskii Characterizations of Stability Notions for Discrete-Time Systems With Uncertain Time-Varying Time Delays. IEEE Transactions on Automatic Control, 2018, 63, 1603-1617.	5.7	33
10	Decentralized Supervisory Control of Networks of Nonlinear Control Systems. IEEE Transactions on Automatic Control, 2018, 63, 2803-2817.	5.7	29
11	Control of Cyber-Physical-Systems with logic specifications: A formal methods approach. Annual Reviews in Control, 2019, 47, 178-192.	7.9	26
12	Symbolic Models and Control of Discrete-Time Piecewise Affine Systems: An Approximate Simulation Approach. IEEE Transactions on Automatic Control, 2014, 59, 175-180.	5.7	24
13	Symbolic models for time-varying time-delay systems via alternating approximate bisimulation. International Journal of Robust and Nonlinear Control, 2015, 25, 2328-2347.	3.7	22
14	A symbolic approach to the design of nonlinear networked control systems. , 2012, , .		21
15	Symbolic models for nonlinear control systems affected by disturbances. International Journal of Control, 2012, 85, 1422-1432.	1.9	18
16	Integrated symbolic design of unstable nonlinear Networked Control Systems. , 2012, , .		12
17	Bisimulation Equivalence of Discrete-Time Stochastic Linear Control Systems. IEEE Transactions on Automatic Control, 2018, 63, 1897-1912.	5.7	11
18	Symbolic control design of nonlinear systems with outputs. Automatica, 2019, 109, 108511.	5.0	9

#	Article	IF	Citations
19	Symbolic Control Design of an Artificial Pancreas for Type-2 Diabetes. IEEE Transactions on Control Systems Technology, 2022, 30, 2131-2146.	5.2	7
20	String Stability of a Vehicular Platoon With the Use of Macroscopic Information. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5861-5873.	8.0	6
21	On symbolic control design of discrete-time nonlinear systems with state quantized measurements. , 2016, , .		5
22	On external behavior equivalence of continuous-time stochastic linear control systems. , 2016, , .		5
23	Approximate supervisory control of nonlinear systems with outputs. , 2017, , .		5
24	A critical bisimulation approach to safety criticality analysis of large-scale Air Traffic Management systems. , 2013, , .		4
25	Model reduction of continuous-time stochastic linear control systems via bisimulation equivalence. , 2016, , .		4
26	Approximate Diagnosis of Metric Systems. , 2018, 2, 115-120.		4
27	Design of a Hybrid Controller for Pressure Swing Adsorption Processes. IEEE Transactions on Control Systems Technology, 2019, 27, 1878-1892.	5.2	4
28	A complexity reduction approach to detectability of switching systems. International Journal of Control, 2010, 83, 1930-1938.	1.9	3
29	On equivalence notions for discrete-time stochastic control systems. , 2015, , .		3
30	On approximate predictability of metric systems. IFAC-PapersOnLine, 2018, 51, 169-174.	0.9	3
31	Mesoscopic Controller for String Stability of Platoons With Disturbances. IEEE Transactions on Control of Network Systems, 2022, 9, 1754-1766.	3.7	3
32	On achievable behavior of stochastic descriptor systems. , 2017, , .		2
33	Time-optimal symbolic control of a changeover process based on an approximately bisimilar symbolic model. Journal of Process Control, 2019, 81, 126-135.	3.3	2
34	Symbolic models approximating possibly unstable time-delay systems with application to the artificial pancreas. , 2019, , .		2
35	Alternating approximately bisimilar symbolic models for nonlinear control systems affected by disturbances. , 2011, , .		1
36	A hybrid controller for purity control of a pressure swing adsorption process. , 2017, , .		1

#	Article	IF	Citations
37	Approximate predictability of Pseudo-Metric Systems. Nonlinear Analysis: Hybrid Systems, 2020, 36, 100869.	3.5	1
38	Output Feedback Reachability of Controlledâ€"Observable States for Nondeterministic Finiteâ€"State Systems. , 2022, 6, 464-469.		1
39	Scalable Mesh Stability of Nonlinear Interconnected Systems. , 2022, 6, 968-973.		1
40	On dataâ€"driven controller synthesis with regular language specifications. IFAC-PapersOnLine, 2020, 53, 3928-3933.	0.9	1
41	On the utilization of Macroscopic Information for String Stability of a Vehicular Platoon. , 2020, , .		1
42	Output Feedback Control via Bisimulation of Stochastic Linear Systems. , 2019, 3, 25-30.		0
43	Data-driven controller synthesis for abstract systems with regular language specifications. Automatica, 2021, 134, 109903.	5.0	0
44	On symbolic control design of nonlinear systems with dynamic regular language specifications. IFAC-PapersOnLine, 2020, 53, 1844-1849.	0.9	0