Antonio Barreiro

List of Publications by Year
in descending order

74	1,185	567281 15	414414 32
papers	citations	h-index	g-index

76	76	76	907
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural Identifiability of Dynamic Systems Biology Models. PLoS Computational Biology, 2016, 12, e1005153.	3.2	181
2	Analysis of networked control systems with drops and variable delays. Automatica, 2007, 43, 2054-2059.	5.0	160
3	Reset Control Systems. Advances in Industrial Control, 2012, , .	0.5	80
4	Delay-Independent Stability of Reset Systems. IEEE Transactions on Automatic Control, 2009, 54, 341-346.	5.7	72
5	Delay-dependent stability of reset systems. Automatica, 2010, 46, 216-221.	5.0	72
6	Reset Times-Dependent Stability of Reset Control Systems. IEEE Transactions on Automatic Control, 2011, 56, 217-223.	5.7	71
7	Generic Approach to Stability Under Time-Varying Delay in Teleoperation: Application to the Position-Error Control of a Gantry Crane. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1581-1591.	5.8	39
8	Inputâ€“output stability of systems with backlash. Automatica, 2006, 42, 1017-1024.	5.0	37
9	Real-time state observers based on multibody models and the extended Kalman filter. Journal of Mechanical Science and Technology, 2009, 23, 894-900.	1.5	35
10	Reset control systems with reset band: Well-posedness, limit cycles and stability analysis. Systems and Control Letters, 2014, 63, 1-11.	2.3	33
11	Nonlinear adaptive sliding mode control with fast non-overshooting responses and chattering avoidance. Journal of the Franklin Institute, 2017, 354, 2788-2815.	3.4	31
12	Stability of non-linear QFT designs based on robust absolute stability criteria. International Journal of Control, 2000, 73, 74-88.	1.9	25
13	Limit cycles analysis of reset control systems with reset band. Nonlinear Analysis: Hybrid Systems, 2011, 5, 163-173.	3.5	18
14	An impulsive dynamical systems framework for reset control systems. International Journal of Control, 2016, 89, 1985-2007.	1.9	17
15	Passive position error correction in Internet-based teleoperation. Automatica, 2010, 46, 1884-1890.	5.0	16
16	Stability Analysis of Bilateral Teleoperation With Bounded and Monotone Environments via Zamesâ€“Falb Multipliers. IEEE Transactions on Control Systems Technology, 2017, 25, 1331-1344.	5.2	16
17	Nonlinear robust stabilization by conicity and QFT techniques. Automatica, 2000, 36, 1309-1320.	5.0	15
18	Stability of Teleoperation Systems for Time-Varying Delays by Neutral LMI Techniques. Mathematical Problems in Engineering, 2012, 2012, 1-17.	1.1	15

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19	Basic Send-on-Delta Sampling for Signal Tracking-Error Reduction. Sensors, 2017, 17, 312.	3.8	15
20	Periodicity of Kalman-based scheduled filters. Automatica, 2014, 50, 2672-2676.	5.0	14
21	A QFT framework for nonlinear robust stability. International Journal of Robust and Nonlinear Control, 2002, 12, 357-372.	3.7	13
22	Reset times-dependent stability of reset control with unstable base systems. , 2007, , .		13
23	Sonar-based robot navigation using nonlinear robust observers. Automatica, 2003, 39, 1195-1203.	5.0	10
24	Delay-dependent stability of reset control systems. Proceedings of the American Control Conference, 2007, , .	0.0	10
25	Stability of Teleoperation Systems by Delay-dependent Neutral LMI Techniques. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	9
26	Reset control for passive teleoperation. , 2008, , .		9
27	Passive internet-based crane teleoperation with haptic aids. International Journal of Control, Automation and Systems, 2012, 10, 78-87.	2.7	9
28	Four-Channel Teleoperation with Time-Varying Delays and Disturbance Observers. Mathematical Problems in Engineering, 2015, 2015, 1-11.	1.1	9
29	Internet emulation system for UDP-based teleoperation. , 2008, , .		8
30	Stability Analysis of reset control systems with reset band. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 180-185.	0.4	8
31	Modeling of Parrot Ardrone and passivity-based reset control. , 2013, , .		8
32	Robust Stability of Scaled-Four-Channel Teleoperation with Internet Time-Varying Delays. Sensors, 2016, 16, 593.	3.8	8
33	Adaptive Tracking in Mobile Robots With Input-Output Linearization. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	1.6	7
34	Structural Identifiability Analysis via Extended Observability and Decomposition. IFAC-PapersOnLine, 2016, 49, 171-177.	0.9	6
35	Delay-Independent Stability of Reset Control Systems. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	5
36	Reset times-dependent stability of reset control systems. , 2007, , .		5

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37	Reset Control Systems with Reset Band: Well-posedness and Limit Cycles Analysis. , 2011, , .		5
38	A Practical Approach to Adaptive Sliding Mode Control. International Journal of Control, Automation and Systems, 2019, 17, 2452-2461.	2.7	5
39	Stability of teleoperation systems for time-varying delays by Lyapunov-Krasovskii and frequencial techniques. , 2009, , .		4
40	Frequency domain properties of reset systems with multiple reset anticipations. IET Control Theory and Applications, 2013, 7, 796-809.	2.1	4
41	1tabilizing an inverted spherical pendulum using a scale quad-rotor. , 2014, , .		4
42	IoT integration on industrial environments. , 2015, , .		4
43	Performance improvement of SISO linear control systems by hybrid state resetting and sector confinement of trajectories. International Journal of Robust and Nonlinear Control, 2016, 26, 4008-4034.	3.7	4
44	Reset Controller Design Based on Error Minimization for a Lane Change Maneuver. Sensors, 2018, 18, 2204.	3.8	4
45	Design of Reset Control Systems. Advances in Industrial Control, 2012, , 181-210.	0.5	4
46	Damping Injection by Reset Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	1.6	3
47	Passivity framework and traffic reduction for the teleoperation of a gantry crane. , 2013, , .		3
48	Wheel slip reset controller in automotive brake systems. , 2014, , .		3
49	Throughput analysis for error reduction in send-on-delta sampling strategies. , 2016, , .		3
50	Threshold selection algorithm for basic Send-on-Delta sampling strategies. , 2016, , .		3
51	Send-on-delta sampling strategies for vehicle position tracking. , 2017, , .		3
52	Reset observers alleviating the peaking and the robustness tradeoffs: A case study on force estimation in teleoperation. ISA Transactions, 2019, 94, 36-46.	5.7	3
53	Domain of attraction of autonomous ocillations in underactuated systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 703-708.	0.4	2
54	Stability of reset control systems with inputs. , 2008, , .		2

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55	Internet Adaptive Deadband for NCS and teleoperation. , 2010, , .		2
56	Delay and its time-derivative dependent Stability of teleoperation systems. , 2010, , .		2
57	Reset control of synchronous motors with permanent magnet excitation. , 2014, , .		2
58	Passive teleoperation of mobile robot with input-output linearization and dynamic extension. , 2014, , .		2
59	Recursive Techniques in State-Space and Matrix Fraction Realizations for Linear Systems. Control and Dynamic Systems, 1995, 72, 25-57.	0.1	1
60	Delay-dependent stability of reset control systems with anticipative reset conditions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 219-224.	0.4	1
61	Sensor/actuator system for internet delays and packet losses. , 2013, , .		1
62	Internet delays and packet losses sensor/actuator for UDP based networked control systems. , 2013, , .		1
63	Stability of Reset Control Systems. Advances in Industrial Control, 2012, , 93-145.	0.5	1
64	Nonlinear Problems in Friction Compensation. , 2002, , 117-130.		1
65	Nonlinear QFT synthesis based on harmonic balance and multiplier theory. , 2001, , 123-136.		0
66	Reset control for injecting dissipation into port-hamiltonian systems. , 2009, , .		0
67	Robust stability in γ-4C based teleoperation. , 2013, , .		0
68	Sensing the internet to remotely control industrial plants. , 2014, , .		0
69	Performance analysis of wheel slip reset controller in brake systems. , 2015, , .		0
70	Comparative Analysis of Gain-Scheduled Wheel Slip Reset Controllers with Different Reset Strategies in Automotive Brake Systems. Lecture Notes in Electrical Engineering, 2017, , 751-761.	0.4	0
71	Reset control with sector confinement for a lane change maneuver. , 2019, , .		0
72	Stability of Time-Delay Reset Control Systems. Advances in Industrial Control, 2012, , 147-179.	0.5	0

#	Article	IF	Citations
73	Application Cases. Advances in Industrial Control, 2012, , 211-247.	0.5	0
74	Definition of Reset Control System and Basic Results. Advances in Industrial Control, 2012, , 57-91.	0.5	0