Jean-Pierre Richard

List of Publications by Year
in descending order

119 papers	7,226 citations	147566 31 h-index	56606 83 g-index
119 all docs	119 docs citations	119 times ranked	3343 citing authors

#	Article	IF	Citations
1	Time-delay systems: an overview of some recent advances and open problems. Automatica, 2003, 39, 1667-1694.	3.0	2,944
2	Robust sampled-data stabilization of linear systems: an input delay approach. Automatica, 2004, 40, 1441-1446.	3.0	1,117
3	Recent developments on the stability of systems with aperiodic sampling: An overview. Automatica, 2017, 76, 309-335.	3.0	308
4	Stability of some linear systems with delays. IEEE Transactions on Automatic Control, 1999, 44, 984-989.	3.6	282
5	On the Liapunov-Krasovskii functionals for stability analysis of linear delay systems. International Journal of Control, 1999, 72, 374-384.	1.2	244
6	Robust control of delay systems: a sliding mode control design via LMI. Systems and Control Letters, 2002, 46, 219-230.	1.3	150
7	Delay identification in time-delay systems using variable structure observers. Annual Reviews in Control, 2006, 30, 143-158.	4.4	95
8	Parameters estimation of systems with delayed and structured entries. Automatica, 2009, 45, 1117-1125.	3.0	91
9	Second-order sliding mode control of underactuated mechanical systems I: Local stabilization with application to an inverted pendulum. International Journal of Robust and Nonlinear Control, 2008, 18, 529-543.	2.1	86
10	Comments on finite-time stability of time-delay systems. Automatica, 2014, 50, 1944-1947.	3.0	84
11	Stability of perturbed systems with time-varying delays. Systems and Control Letters, 1997, 31, 155-163.	1.3	83
12	A Switched System Approach to Exponential Stabilization Through Communication Network. IEEE Transactions on Control Systems Technology, 2012, 20, 887-900.	3.2	76
13	A state dependent sampling for linear state feedback. Automatica, 2012, 48, 1860-1867.	3.0	75
14	Stability analysis of bilinear systems under aperiodic sampled-data control. Automatica, 2014, 50, 1288-1295.	3.0	73
15	Discrete and Intersample Analysis of Systems With Aperiodic Sampling. IEEE Transactions on Automatic Control, 2011, 56, 1696-1701.	3.6	71
16	On identifiability of linear time-delay systems. IEEE Transactions on Automatic Control, 2002, 47, 1319-1324.	3.6	67
17	Interval observer design for estimation and control of time-delay descriptor systems. European Journal of Control, 2015, 23, 26-35.	1.6	63
18	Adaptive identification of linear time-delay systems. International Journal of Robust and Nonlinear Control, 2003, 13, 857-872.	2.1	59

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19	Unknown input observer for linear time-delay systems. Automatica, 2015, 61, 35-43.	3.0	54
20	On Observation of Time-Delay Systems With Unknown Inputs. IEEE Transactions on Automatic Control, 2011, 56, 1973-1978.	3.6	52
21	Output stabilization of time-varying input delay systems using interval observation technique. Automatica, 2013, 49, 3402-3410.	3.0	47
22	Second-order sliding mode control of underactuated mechanical systems II: Orbital stabilization of an inverted pendulum with application to swing up/balancing control. International Journal of Robust and Nonlinear Control, 2008, 18, 544-556.	2.1	43
23	Stabilisation of neutral systems with saturating control inputs. International Journal of Systems Science, 2011, 42, 1093-1103.	3.7	43
24	Stability analysis of some classes of input-affine nonlinear systems with aperiodic sampled-data control. Automatica, 2016, 70, 266-274.	3.0	41
25	Implicit Lyapunov-Krasovski Functionals for Stability Analysis and Control Design of Time-Delay Systems. IEEE Transactions on Automatic Control, 2015, 60, 3344-3349.	3.6	38
26	Sliding mode control of systems with time-varying delays via descriptor approach. International Journal of Systems Science, 2003, 34, 553-559.	3.7	37
27	Interval estimation for uncertain systems with time-varying delays. International Journal of Control, 2013, 86, 1777-1787.	1.2	37
28	A Note on Distributed Finite-Time Observers. IEEE Transactions on Automatic Control, 2019, 64, 759-766.	3.6	37
29	Delay-dependent sampled-data control based on delay estimates. Systems and Control Letters, 2011, 60, 146-150.	1.3	36
30	Robust sliding mode control of non-linear systems with delay: a design via polytopic formulation. International Journal of Control, 2004, 77, 206-215.	1.2	34
31	Mean square stability of difference equations with a stochastic delay. Nonlinear Analysis: Theory, Methods & Applications, 2003, 52, 795-804.	0.6	33
32	Delayed sliding mode control. Automatica, 2016, 64, 37-43.	3.0	32
33	Feedback control of time-delay systems with bounded control and state. Mathematical Problems in Engineering, 1995, 1, 77-87.	0.6	29
34	A simple finite-time distributed observer design for linear time-invariant systems. Systems and Control Letters, 2020, 141, 104707.	1.3	27
35	Estimate of solutions for some Volterra difference equations. Nonlinear Analysis: Theory, Methods & Applications, 2000, 40, 345-363.	0.6	26
36	A sliding mode observer for linear systems with unknown time varying delay. Proceedings of the American Control Conference, 2007, , .	0.0	26

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37	On practical stability with the settling time via vector norms. International Journal of Control, 1995, 62, 173-189.	1.2	25
38	Linear interval observers under delayed measurements and delay-dependent positivity. Automatica, 2016, 72, 123-130.	3.0	23
39	Sliding-Mode Control of Retarded Nonlinear Systems Via Finite Spectrum Assignment Approach. IEEE Transactions on Automatic Control, 2006, 51, 1527-1531.	3.6	21
40	A robust stability framework for LTI systems with time-varying sampling. Automatica, 2015, 54, 56-64.	3.0	20
41	Design of interval observers and controls for PDEs using finite-element approximations. Automatica, 2018, 93, 302-310.	3.0	19
42	On design of interval observers with sampled measurement. Systems and Control Letters, 2016, 96, 158-164.	1.3	18
43	Some new trends in the study of time-delay systems. Mathematics and Computers in Simulation, 1998, 45, 219-221.	2.4	17
44	A DISTRIBUTION FRAMEWORK FOR THE FAST IDENTIFICATION OF LINEAR SYSTEMS WITH DELAYS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 132-137.	0.4	16
45	Stabilization of linear impulsive systems under dwell-time constraints: Interval observer-based framework. European Journal of Control, 2018, 42, 1-14.	1.6	16
46	Stability, attraction domains, and ultimate boundedness for nonlinear neutral systems. Mathematics and Computers in Simulation, 1998, 45, 291-298.	2.4	15
47	A fast identification algorithm for systems with delayed inputs. International Journal of Systems Science, 2011, 42, 449-456.	3.7	15
48	Exponential Stabilization of Delay Neutral Systems under Sampled-Data Control. , 2005, , .		14
49	Design of a Pressure Control System With Dead Band and Time Delay. IEEE Transactions on Control Systems Technology, 2007, 15, 1103-1111.	3.2	14
50	A novel control design for delayed teleoperation based on delay-scheduled Lyapunovâ€“Krasovskii functionals. International Journal of Control, 2014, 87, 1694-1706.	1.2	14
51	Stability of nonlinear differential equations with distributed delay. Nonlinear Analysis: Theory, Methods & Applications, 1998, 34, 1081-1095.	0.6	13
52	Switching controller for stabilization of linear systems with switched time-varying delays. , 2009, , .		13
53	Interval observer design and control of uncertain non-homogeneous heat equations. Automatica, 2020, 111, 108595.	3.0	13
54	A convolution approach for delay systems identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 6325-6329.	0.4	12

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55	Lyapunov analysis of sliding motions: Application to bounded control. Mathematical Problems in Engineering, 1996, 3, 1-25.	0.6	11
56	Multivariate numerical differentiation. Journal of Computational and Applied Mathematics, 2011, 236, 1069-1089.	1.1	11
57	Interval Observers for Linear Impulsive Systems. IFAC-PapersOnLine, 2016, 49, 867-872.	0.5	11
58	Distributed Observers With Time-Varying Delays. IEEE Transactions on Automatic Control, 2021, 66, 5354-5361.	3.6	11
59	A bilinear input-output model with state-dependent delay for separated flow control. , 2016, , .		10
60	Interval Estimation for Linear Switched System * *This work was partially supported by the Government of Russian Federation (Grant 074-U01) and the Ministry of Education and Science of Russian Federation (Project 14.Z50.31.0031).. IFAC-PapersOnLine, 2017, 50, 6265-6270.	0.5	10
61	Numerical differentiation on irregular grids. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14-19.	0.4	9
62	SISO modelâ€based control of separated flows: Sliding mode and optimal control approaches. International Journal of Robust and Nonlinear Control, 2017, 27, 5008-5027.	2.1	9
63	Implementation of an Internet-controlled system under variable delays. , 2006, , .		8
64	Robust output stabilization of time-varying input delay systems using attractive ellipsoid method. , 2013, , .		8
65	On the stability of input-affine nonlinear systems with sampled-data control. , 2013, , .		8
66	Interval observers for PDEs: approximation approach. IFAC-PapersOnLine, 2016, 49, 915-920.	0.5	8
67	Control of a remote system over network including delays and packet dropout. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 6336-6341.	0.4	7
68	Delay dependent stability analysis of interval time-delay systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 313-318.	0.4	7
69	Causal observability of nonlinear time-delay systems with unknown inputs. , 2010, , .		7
70	Finite Time Observer-Based Control of Linear Impulsive Systems with Persistently Acting Impact. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2442-2447.	0.4	7
71	Sampled-Data Stabilization via Round-Robin Scheduling: A Direct Lyapunov-Krasovskii Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1459-1464.	0.4	7
72	State-dependent sampling for perturbed time-delay systems. , 2012, , .		7

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73	State-dependent sampling for Linear Time Invariant systems: A discrete time analysis. , 2012, , .		7
74	Linear time delay systems: Some recent advances and open problems 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 5-19.	0.4	6
75	Tracking improvement based on the proxy control scheme for bilateral teleoperation system under time-varying delays. , 2011, , .		6
76	Interval estimation for systems with time delays and algebraic constraints. , 2014, , .		6
77	Identifiability and Identification of Linear Systems with Delays. Lecture Notes in Computational Science and Engineering, 2004, , 123-135.	0.1	6
78	Observer Design for Systems with Non Small and Unknown Time-Varying Delay. Lecture Notes in Control and Information Sciences, 2009, , 233-242.	0.6	6
79	Observer design for systems with non small and unknown time-varying delay. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 215-220.	0.4	5
80	An algebraic method for multi-dimensional derivative estimation. , 2008, , .		5
81	Stability of bilinear sampled-data systems with an emulation of static state feedback. , 2012, , .		5
82	Tutorial on arbitrary and state-dependent sampling. , 2014, , .		5
83	Comparison of the Time-Delay Margin of a Distributed and Centralized Observer. , 2018, , .		5
84	Homogeneity of neutral systems and accelerated stabilization of a double integrator by measurement of its position. Automatica, 2020, 118, 109023.	3.0	5
85	Dissipativity-based framework for stability analysis of aperiodically sampled nonlinear systems with time-varying delay. Automatica, 2021, 129, 109632.	3.0	5
86	Real time identification of delay systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 204-208.	0.4	4
87	Stability of Sampled-data Systems with Uncertain Time-varying Delays and Its Application to Consensus Control of Multi-agent Systems. IFAC-PapersOnLine, 2017, 50, 1257-1262.	0.5	4
88	Frequency-domain stability conditions for asynchronously sampled decentralized LTI systems. Automatica, 2021, 129, 109603.	3.0	4
89	Stabilization of the cart-pendulum system via quasi-homogeneous switched control. , 0, , .		3
90	H<inf>∞</inf> control of delayed teleoperation systems under polytopic-type uncertainties. , 2012, , .		3

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91	Interval observer approach to output stabilization of time-varying input delay systems. , 2013, , .		3
92	Identifiability and Observability of Nonlinear Time-Delay Systems with Unknown Inputs. Advances in Delays and Dynamics, 2016, , 385-403.	0.4	3
93	A distributed finite-time observer for linear systems. , 2017, , .		3
94	${L}_{2}$-Stability Criterion for Systems with Decentralized Asynchronous Controllers. , 2018, , .		3
95	A robust Sliding Mode Controller for a class of SISO bilinear delayed systems. , 2018, , .		3
96	Design of a distributed finite-time observer using observability decompositions. , 2019, , .		3
97	Robust Sampled-Data Control: An Input Delay Approach. , 2007, , 315-327.		3
98	Delay system identification applied to the longitudinal flight of an aircraft through a vertical gust. , 2006, , .		2
99	Implementation of an Internet-based Remote Controller with guaranteed exponential Stabilization. , 2008, , .		2
100	A novel control scheme for teleoperation with guaranteed performance under time-varying delays. , 2011, , .		2
101	A sliding mode controller for a model of flow separation in boundary layers. International Journal of Robust and Nonlinear Control, 2020, 30, 1181-1202.	2.1	2
102	Design of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si31.svg"><mml:msub><mml:mi mathvariant="bold-script">L</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> stable fixed-order decentralised controllers in a network of sampled-data systems with time-delays. European Journal of Control, 2020, 56, 73-85.	1.6	2
103	Event-triggered Data-efficient Observers of Perturbed Systems. IFAC-PapersOnLine, 2020, 53, 2820-2825.	0.5	2
104	Estimation of the solutions of Volterra difference equations. Journal of Mathematical Analysis and Applications, 2002, 273, 618-626.	0.5	1
105	IJSS Special Issue on Telecommunications. International Journal of Systems Science, 2003, 34, 561-561.	3.7	1
106	TWO CONTROL LAWS FOR A SPRAY SYSTEM WITH TIME VARYING DELAY AND DEAD BAND. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 86-91.	0.4	1
107	How to deal with potentially huge dimensional state space: The meta-dynamics approachâ€"application to a model of the co-evolution of bacterio-phage populations. Journal of Computational and Applied Mathematics, 2007, 205, 687-695.	1.1	1
108	Networked Control and Observation for Master-Slave Systems. , 2009, , 1-23.		1

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109	Analysis of Bilinear Systems withÂSampled-Data State Feedback. Advances in Delays and Dynamics, 2016, , 79-96.	0.4	1
110	Global and Local Weighted Homogeneity for Time-Delay Systems. Advances in Delays and Dynamics, 2016, , 163-181.	0.4	1
111	Sliding-Mode Stabilization of SISO Bilinear Systems with Delays. Studies in Systems, Decision and Control, 2020, , 215-236.	0.8	1
112	Observing a Unicycle Robot with Data Rate Constraints: a Case Study. , 2021, , .		1
113	Interval estimation for systems with unknown input delays and gains. , 2014, , .		0
114	On hyper exponential stabilization of linear state-delay systems. , 2017, , .		0
115	Echantillonnage dÃ©pendant de lâ€™Ã©tat pour les systÃ¨mes avec perturbations et retards. Journal Europeen Des Systemes Automatises, 2011, 45, 189-203.	0.3	0
116	A Hybrid Method for the Analysis of Non-uniformly Sampled Systems. Lecture Notes in Control and Information Sciences, 2012, , 253-264.	0.6	0
117	Sampled-Data Stabilization under Round-Robin Scheduling. Advances in Delays and Dynamics, 2014, , 171-184.	0.4	0
118	State-Dependent Sampling for Online Control. Advances in Delays and Dynamics, 2014, , 3-16.	0.4	0
119	Control Design for Teleoperation over Unreliable Networks: A Predictor-Based Approach. Advances in Delays and Dynamics, 2014, , 87-100.	0.4	0