Pierdomenico Pepe

List of Publications by Year
in descending order

156	3,493	136950	161849
papers	citations	32 h-index	54 g-index

161	161	161	1235
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On Lyapunov Methods for Nonlinear Discrete-Time Switching Systems With Dwell-Time Ranges. IEEE Transactions on Automatic Control, 2022, 67, 1574-1581.	5.7	8
2	Lyapunovâ€“Krasovskii Characterizations of Integral Input-to-State Stability of Delay Systems With Nonstrict Dissipation Rates. IEEE Transactions on Automatic Control, 2022, 67, 3259-3272.	5.7	16
3	A nonlinear version of Halanay's inequality for the uniform convergence to the origin. Mathematical Control and Related Fields, 2022, 12, 789.	1.1	11
4	A New Approach to the Design of Sampled-Data Dynamic Output Feedback Stabilizers. IEEE Transactions on Automatic Control, 2022, 67, 1038-1045.	5.7	18
5	Robust Quantized Sampledâ€“Data Stabilization for a Class of Lipschitz Nonlinear Systems With Timeâ€“Varying Uncertainties. , 2022, 6, 1256-1261.		3
6	Voltage Regulation and Current Sharing in DC Microgrids With Different Information Scenarios. IEEE Transactions on Control Systems Technology, 2022, 30, 1905-1919.	5.2	7
7	Symbolic Control Design of an Artificial Pancreas for Type-2 Diabetes. IEEE Transactions on Control Systems Technology, 2022, 30, 2131-2146.	5.2	7
8	On Robustification of Sampledâ€“Data Dynamic Output Feedback Stabilizers for Controlâ€“Affine Nonlinear Systems. , 2022, , 1-1.		0
9	Quantized Sampled-Data Attitude Control of Ground Vehicles: An Event-Based Approach. , 2022, 6, 3194-3199.		2
10	On Practical Stability Preservation Under Fast Sampling and Accurate Quantization of Feedbacks for Nonlinear Time-Delay Systems. IEEE Transactions on Automatic Control, 2021, 66, 314-321.	5.7	18
11	Lyapunovâ€“Krasovskii Characterizations of Stability Notions for Switching Retarded Systems. IEEE Transactions on Automatic Control, 2021, 66, 437-443.	5.7	7
12	A Converse Lyapunovâ€“Krasovskii Theorem for the Global Asymptotic Local Exponential Stability of Nonlinear Timeâ€“Delay Systems. , 2021, 5, 7-12.		8
13	Event-Triggered Control of Nonlinear Systems With Time-Varying State Delays. IEEE Transactions on Automatic Control, 2021, 66, 2846-2853.	5.7	25
14	Finite-Dimensional Periodic Event-Triggered Control of Nonlinear Time-Delay Systems With an Application to the Artificial Pancreas. , 2021, 5, 31-36.		20
15	On Stability Analysis of Discrete-Time Systems With Constrained Time-Delays via Nonlinear Halanay-Type Inequality. , 2021, 5, 869-874.		13
16	Sample-and-hold solution of a consensus problem with nonlinear dynamics and input/output disturbances. European Journal of Control, 2021, 59, 227-237.	2.6	6
17	Exponential input-to-state stability of globally Lipschitz time-delay systems under sampled-data noisy output feedback and actuation disturbances. International Journal of Control, 2021, 94, 1682-1692.	1.9	10
18	Lyapunov--Krasovskii Characterization of the Input-to-State Stability for Switching Retarded Systems. SIAM Journal on Control and Optimization, 2021, 59, 2997-3016.	2.1	6

#	Article	IF	Citations
19	Sufficient Lyapunov conditions for exponential mean square stability of discrete-time systems with markovian delays. , 2021, , .		0
20	Robust Sampled-Data Consensus-Based Cooperative Control of Multiâ€“UAVs. , 2021, , .		0
21	Quantized sampled-data static output feedback control of the glucoseâ€“insulin system. Control Engineering Practice, 2021, 112, 104828.	5.5	13
22	On Sampledâ€“Data Leaderless Consensus Tracking of Nonlinear Multiâ€“Agent Timeâ€–Delay Systems. IFAC-PapersOnLine, 2021, 54, 192-197.	0.9	2
23	On Stabilization of Nonlinear Timeâ€–Delay Systems via Quantized Sampledâ€–Data Dynamic Output Feedback Controllers. , 2021, , .		1
24	Semiglobal Sampled-Data Dynamic Output Feedback Controller for the Glucoseâ€–Insulin System. IEEE Transactions on Control Systems Technology, 2020, 28, 16-32.	5.2	16
25	Discrete-Time Systems With Constrained Time Delays and Delay-Dependent Lyapunov Functions. IEEE Transactions on Automatic Control, 2020, 65, 1724-1730.	5.7	32
26	An observer for a class of nonlinear systems with multiple state and measurement delays: A differential geometry-based approach. European Journal of Control, 2020, 56, 132-141.	2.6	4
27	Sufficient Lyapunov conditions for pth moment ISS of discrete-time Markovian Switching Systems. , 2020, , .		4
28	Sampled-Data Static Output Feedback Control of the Glucose-Insulin System. IFAC-PapersOnLine, 2020, 53, 3626-3631.	0.9	7
29	ISS Small-Gain Theorem for Networked Discrete-Time Switching Systems. IFAC-PapersOnLine, 2020, 53, 1900-1905.	0.9	2
30	Symbolic models approximating possibly unstable time-delay systems with application to the artificial pancreas. , 2019, , .		2
31	Robustification of sample-and-hold controllers for the consensus problem. , 2019, , .		2
32	A relaxed Lyapunov-Krasovskii condition for global exponential stability of Lipschitz time-delay systems. , 2019, , .		8
33	Converse Lyapunov Theorems for Discrete-Time Switching Systems With Given Switches Digraphs. IEEE Transactions on Automatic Control, 2019, 64, 2502-2508.	5.7	16
34	Sampled-data emulation of dynamic output feedback controllers for nonlinear time-delay systems. Automatica, 2019, 99, 120-131.	5.0	47
35	Decentralized Supervisory Control of Networks of Nonlinear Control Systems. IEEE Transactions on Automatic Control, 2018, 63, 2803-2817.	5.7	29
36	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

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37	Integral Input-to-State Stability of Delay Systems Based on Lyapunov-Krasovskii Functionals with Point-Wise Dissipation Rate. , 2018, , .		7
38	Small-Gain Theorems for Nonlinear Discrete-Time Systems with Uncertain Time-Varying Delays. , 2018, , .		1
39	Solution by sampled-data control of a consensus problem: an approach by stabilization in the sample-and-hold sense. , 2018, , .		1
40	Lyapunovâ€“Krasovskii characterization of the input-to-state stability for neutral systems in Haleâ€™s form. Systems and Control Letters, 2017, 102, 48-56.	2.3	25
41	On global exponential stability preservation under sampling for globally Lipschitz time-delay systems. Automatica, 2017, 82, 295-300.	5.0	44
42	On Control Lyapunovâ€“Razumikhin Functions, Nonconstant Delays, Nonsmooth Feedbacks, and Nonlinear Sampled-Data Stabilization. IEEE Transactions on Automatic Control, 2017, 62, 5604-5619.	5.7	32
43	Luenberger-Like Observers for Nonlinear Time-Delay Systems with Application to the Artificial Pancreas: The Attainment of Good Performance. IEEE Control Systems, 2017, 37, 33-49.	0.8	75
44	Local sampled-data control of the glucose-insulin system. , 2017, , .		4
45	Robustification of sample-and-hold stabilizers for control-affine time-delay systems. Automatica, 2017, 83, 141-154.	5.0	33
46	Is a point-wise dissipation rate enough to show ISS for time-delay systems? * *This work is supported by a public grant overseen by the French National Research Agency (ANR) as part of the Investissement dAvenir program, through the iCODE Institute project funded by the IDEX Paris-Saclay, ANR-11-IDEX-0003-02, and by the ANR JCJC project SynchNeuro.. IFAC-PapersOnLine, 2017, 50, 14356-14361.	0.9	9
47	Spline approximated feedbacks for local sample-and-hold stabilization of nonlinear retarded systems: Applications. , 2017, , .		1
48	Robust global nonlinear sampled-data regulator for the Glucose-Insulin system. , 2017, , .		9
49	On emulation of observer-based stabilizers for nonlinear systems. , 2017, , .		11
50	Stabilization of strict-feedback nonlinear systems with input delay using closed-loop predictors. International Journal of Robust and Nonlinear Control, 2016, 26, 3524-3540.	3.7	46
51	On Lyapunov-Krasovskii characterizations of stability notions for discrete-time systems with unknown time-varying time-delays. , 2016, , .		2
52	On Global Exponential Stability Preservation under Sampling for Globally Lipschitz Delay-Free and Retarded Systems. IFAC-PapersOnLine, 2016, 49, 41-46.	0.9	6
53	Robust Sample-and-Hold Stabilization for Nonlinear Retarded Systems**This work is supported in part by the Italian MIUR PRIN Project 2009, the Atheneum Project RIA 2013, and by the Center of Excellence for Research DEWS. Tel.: +39 0862434422;fax: +39 0862434403. E-mail address: mario.diferdinando@graduate.univaq.it. IFAC-PapersOnLine, 2016, 49, 53-58.	0.9	1
54	On Stability Preservation under Sampling and Approximation of Feedbacks for Retarded Systems. SIAM Journal on Control and Optimization, 2016, 54, 1895-1918.	2.1	40

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55	Stabilization of retarded systems of neutral type by control Lyapunovâ€“Krasovskii functionals. Systems and Control Letters, 2016, 94, 142-151.	2.3	13
56	Symbolic Models for Networks of Control Systems. IEEE Transactions on Automatic Control, 2016, 61, 3663-3668.	5.7	76
57	Stabilization of Nonlinear Delay Systems: AÂTutorial on Recent Results. Advances in Delays and Dynamics, 2016, , 1-41.	0.4	18
58	A Note on Converse Lyapunov Theorems for Neutral Systems. Advances in Delays and Dynamics, 2016, , 243-259.	0.4	0
59	Recent Results on Glucoseâ€“Insulin Predictions by Means of a State Observer for Time Delay Systems. Lecture Notes in Bioengineering, 2016, , 227-241.	0.4	2
60	ISS Robustification for Stabilizable Systems Described by Retarded Functional Differential Equations and Functional Difference Equations. Advances in Delays and Dynamics, 2016, , 191-205.	0.4	0
61	Linearizing and stabilizing discontinuous feedbacks for delay systems as stabilizers in the sample-and-hold sense. , 2015, , .		0
62	Stabilization in the Sample-and-Hold Sense of Nonlinear Retarded Systems: Further insights and perspectives. , 2015, , .		4
63	An LMI-based controller for the glucose-insulin system. , 2015, , .		3
64	Robustification of nonlinear stabilizers in the sample-and-hold sense. Journal of the Franklin Institute, 2015, 352, 4107-4128.	3.4	30
65	Observer-Based Control of <italic>LLC</italic> DC/DC Resonant Converter Using Extended Describing Functions. IEEE Transactions on Power Electronics, 2015, 30, 5881-5891.	7.9	80
66	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
67	Direct and converse Lyapunov theorems for functional difference systems. Automatica, 2014, 50, 3054-3066.	5.0	30
68	Design of decentralized, practically stabilizing controllers for a class of interconnected retarded systems. , 2014, , .		1
69	Symbolic models for networks of discrete-time nonlinear control systems. , 2014, , .		9
70	Stabilization in the Sample-and-Hold Sense of Nonlinear Retarded Systems. SIAM Journal on Control and Optimization, 2014, 52, 3053-3077.	2.1	61
71	Model-based control of plasma glycemia: Tests on populations of virtual patients. Mathematical Biosciences, 2014, 257, 2-10.	1.9	28
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73	Construction of Lyapunov Functionals for Networks of Coupled Delay Differential and Continuous-Time Difference Equations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6800-6805.	0.4	0
74	Decentralized Robustification of Interconnected Time-Delay Systems Based on Integral Input-to-State Stability. Advances in Delays and Dynamics, 2014, , 199-213.	0.4	5
75	DDE Model-Based Control of Glycemia via Sub-cutaneous Insulin Administration. Advances in Delays and Dynamics, 2014, , 229-240.	0.4	1
76	On Sontagâ€™s formula for the input-to-state practical stabilization of retarded control-affine systems. Systems and Control Letters, 2013, 62, 1018-1025.	2.3	26
77	Construction of Lyapunovâ€“Krasovskii functionals for networks of iISS retarded systems in small-gain formulation. Automatica, 2013, 49, 3246-3257.	5.0	23
78	Converse Lyapunovâ€“Krasovskii theorems for systems described by neutral functional differential equations in Hale's form. International Journal of Control, 2013, 86, 232-243.	1.9	74
79	Linearization of LLC resonant converter model based on extended describing function concept. , 2013, , .		19
80	Construction of Lyapunov functionals for coupled differential and continuous time difference equations. , 2013, , .		13
81	Closed-loop glucose control: Application to the Euglycemic Hyperinsulinemic Clamp. , 2013, , .		3
82	Observer-based closed-loop control for the glucose-insulin system: Local Input-to-State Stability with respect to unknown meal disturbances. , 2013, , .		7
83	Input-to-State Stability of Nonlinear Functional Systems* *Plenary lecture at IFAC Joint Conference SSC-TDS-FDA, Grenoble, France, 4-6 February, 2013. The work is supported in part by the Italian MIUR Project PRIN 2009 and by the Center of Excellence for Research DEWS.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 528-539.	0.4	0
84	Input-to-State Stabilization in the Lp Space of Stabilizable Systems Described by Coupled Delay Differential and Difference Equations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 427-432.	0.4	2
85	Input-to-State Stability of Nonlinear Functional Systems * *Plenary lecture at IFAC Joint Conference SSC-TDS-FDA, Grenoble, France, 4-6 February, 2013. The work is supported in part by the Italian MIUR Project PRIN 2009 and by the Center of Excellence for Research DEWS.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 528-539.	0.4	2
86	Regulation of the Human Plasma Glycemia by Means of Glucose Measurements and Subcutaneous Insulin Administration. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 524-529.	0.4	3
87	Decentralized iISS Robustification of Interconnected Time-Delay Systems: A Small-Gain Approach*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 219-224.	0.4	1
88	Observer-based glucose control via subcutaneous insulin administration. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 107-112.	0.4	10
89	Time-Delay Model-Based Control of the Glucoseâ€“Insulin System, by Means of a State Observer. European Journal of Control, 2012, 18, 591-606.	2.6	50
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92	On the input-to-state practical stabilization of nonlinear neutral systems. , 2012, , .		3
93	Observer-Based Stabilizing Control for a Class of Nonlinear Retarded Systems. Lecture Notes in Control and Information Sciences, 2012, , 331-342.	1.0	16
94	Lyapunov criteria for stability in <mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http. Automatica, 2012, 48, 1	5.0	13
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97	A Small-Gain Methodology for Networks of iISS Retarded Systems based on Lyapunov-Krasovskii Functionals. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5100-5105.	0.4	4
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99	On the actuator disturbance attenuation for systems described by neutral equations. IMA Journal of Mathematical Control and Information, 2011, 28, 163-181.	1.7	12
100	Observer-based nonlinear control law for a continuous stirred tank reactor with recycle. Chemical Engineering Science, 2011, 66, 4780-4797.	3.8	19
101	ISS feedback control redesign for continuous stirred tank reactors. International Journal of Robust and Nonlinear Control, 2011, 21, 1947-1974.	3.7	4
102	Digital Control of a Continuous Stirred Tank Reactor. Mathematical Problems in Engineering, 2011, 2011, 1-18.	1.1	2
103	Separation Theorems for a Class of Retarded Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 21-26.	0.4	2
104	Liapunov Criteria for Stability in Lp Norm of Special Neutral Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 194-199.	0.4	2
105	A small-gain condition for iISS of interconnected retarded systems based on Lyapunovâ€“Krasovskii functionals. Automatica, 2010, 46, 1646-1656.	5.0	70
106	Symbolic models for nonlinear time-delay systems using approximate bisimulations. Systems and Control Letters, 2010, 59, 365-373.	2.3	58
107	Alternating approximately bisimilar symbolic models for nonlinear control systems with unknown time-varying delays. , 2010, , .		7
108	Quadratic Optimal control of linear systems with time-varying input delay. , 2010, , .		8

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110	On saturation, discontinuities and time-delays in iISS and ISS feedback control redesign. , 2010, , .		3
111	ISS feedback redesign for disturbance attenuation in continuous stirred tank reactors. , 2009, , .		1
112	Further results on Lyapunov-Krasovskii functionals via nonlinear small-gain conditions for interconnected retarded iISS systems. , 2009, , .		3
113	A symbolic model approach to the digital control of nonlinear time-delay systems. , 2009, , .		5
114	Stability results for systems described by coupled retarded functional differential equations and functional difference equations. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, 3339-3362.	1.1	59
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116	Input-to-State Stability Analysis of Partial-Element Equivalent-Circuit Models. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 673-684.	5.4	24
117	Construction of Lyapunov-Krasovskii functionals for interconnection of retarded dynamic and static systems via a small-gain condition. , 2009, , .		7
118	Input-to-State Stabilization of Stabilizable, Time-Delay, Control-Affine, Nonlinear Systems. IEEE Transactions on Automatic Control, 2009, 54, 1688-1693.	5.7	61
119	Observer-Based Control of a Continuous Stirred Tank Reactor with Recycle Time-Delay * *This paper is supported by the University of L'Aquila ex 60% and Ph.D. school funds.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1-8.	0.4	2
120	ISS Feedback Control Laws for Stabilizable Neutral Systems*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 236-241.	0.4	0
121	Time Optimal and Optimal Impulsive Control for Coupled Differential Difference Point Delay Systems with an Application in Forestry. Lecture Notes in Control and Information Sciences, 2009, , 255-265.	1.0	10
122	A Robust State Feedback Control Law for a Continuous Stirred Tank Reactor with Recycle. Lecture Notes in Control and Information Sciences, 2009, , 281-291.	1.0	3
123	Robust closed-loop control of plasma glycemia: A discrete-delay model approach. Discrete and Continuous Dynamical Systems - Series B, 2009, 12, 455-468.	0.9	21
124	On the Liapunovâ€“Krasovskii methodology for the ISS of systems described by coupled delay differential and difference equations. Automatica, 2008, 44, 2266-2273.	5.0	75
125	A new Lyapunovâ€“Krasovskii methodology for coupled delay differential and difference equations. International Journal of Control, 2008, 81, 107-115.	1.9	79
126	Input-to-Output Stability for Systems Described by Retarded Functional Differential Equations. European Journal of Control, 2008, 14, 539-555.	2.6	82

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127	Global Output Stability for Systems Described by Retarded Functional Differential Equations: Lyapunov Characterizations. European Journal of Control, 2008, 14, 516-536.	2.6	69
128	Input-to-State Stability of Time-Delay Systems: A Link With Exponential Stability. IEEE Transactions on Automatic Control, 2008, 53, 1526-1531.	5.7	78
129	A small-gain condition for integral input-to-state stability of interconnected retarded nonlinear systems. , 2008, , .		6
130	IF a retarded system is linearizable and stabilizable, then it is input-to-state stabilizable. , 2008, , .		0
131	ISS control laws for stabilizable retarded systems by means of the Liapunov-Razumikhin methodology. , 2008, , .		0
132	ISS control laws for stabilizable retarded systems by means of the Liapunov-Krasovskii methodology. , 2008, , .		1
133	Input-to-State Stability and exponential stability for time-delay systems: further results. , 2007, , .		11
134	The Problem of the Absolute Continuity for Lyapunovâ€“Krasovskii Functionals. IEEE Transactions on Automatic Control, 2007, 52, 953-957.	5.7	82
135	A Liapunov-Krasovskii criterion for ISS of systems described by coupled delay differential and difference equations. , 2007, , .		1
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138	On Liapunovâ€“Krasovskii functionals under CarathÃ©odory conditions. Automatica, 2007, 43, 701-706.	5.0	113
139	A Robust Approximation Scheme for the LQG Control of an Undamped Flexible Beam with a Tip Mass. European Journal of Control, 2006, 12, 635-651.	2.6	2
140	A New Lyapunov-Krasovskii Methodology for Coupled Delay Differential Difference Equations. , 2006, , .		3
141	A Lyapunov-Krasovskii Methodology for iISS of Time-Delay Systems. , 2006, , .		2
142	A Lyapunovâ€“Krasovskii methodology for ISS and iISS of time-delay systems. Systems and Control Letters, 2006, 55, 1006-1014.	2.3	310
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146	Adaptive output tracking for a class of non-linear time-delay systems. International Journal of Adaptive Control and Signal Processing, 2004, 18, 489-503.	4.1	36
147	Input-output linearization with delay cancellation for nonlinear delay systems: the problem of the internal stability. International Journal of Robust and Nonlinear Control, 2003, 13, 909-937.	3.7	97
148	The Liapunov's second method for continuous time difference equations. International Journal of Robust and Nonlinear Control, 2003, 13, 1389-1405.	3.7	50
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151	A new approach to state observation of nonlinear systems with delayed output. IEEE Transactions on Automatic Control, 2002, 47, 96-101.	5.7	250
152	A Twofold Spline Approximation for Finite Horizon LQG Control of Hereditary Systems. SIAM Journal on Control and Optimization, 2000, 39, 1233-1295.	2.1	34
153	LOCAL ASYMPTOTIC STABILITY FOR NONLINEAR STATE FEEDBACK DELAY SYSTEMS. , 1999, , .		15
154	Linearization and decoupling of nonlinear delay systems. , 1998, , .		28
155	On the stability of coupled delay differential and continuous time difference equations. , 0, , .		1
156	A Lyapunov-Krasovskii Methodology for ISS of Time-Delay Systems. , 0, , .		9