

Fen Wu

List of Publications by Year in descending order

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180
papers

4,214
citations

172457

29
h-index

128289

60
g-index

181
all docs

181
docs citations

181
times ranked

1845
citing authors

#	ARTICLE	IF	CITATIONS
1	Induced L2-norm control for LPV systems with bounded parameter variation rates. International Journal of Robust and Nonlinear Control, 1996, 6, 983-998.	3.7	510
2	Switching LPV control of an F-16 aircraft via controller state reset. IEEE Transactions on Control Systems Technology, 2006, 14, 267-277.	5.2	253
3	Induced L2-norm control for LPV systems with bounded parameter variation rates. International Journal of Robust and Nonlinear Control, 1996, 6, 983-998.	3.7	240
4	Switching LPV control designs using multiple parameter-dependent Lyapunov functions. Automatica, 2004, 40, 1973-1980.	5.0	224
5	LPV Systems with parameter-varying time delays: analysis and control. Automatica, 2001, 37, 221-229.	5.0	198
6	A generalized LPV system analysis and control synthesis framework. International Journal of Control, 2001, 74, 745-759.	1.9	195
7	Gain-scheduling control of LFT systems using parameter-dependent Lyapunov functions. Automatica, 2006, 42, 39-50.	5.0	173
8	Anti-windup controller design using linear parameter-varying control methods. International Journal of Control, 2000, 73, 1104-1114.	1.9	158
9	Hybrid Control for Switched Linear Systems With Average Dwell Time. IEEE Transactions on Automatic Control, 2015, 60, 240-245.	5.7	131
10	Anti-windup control design for exponentially unstable LTI systems with actuator saturation. Systems and Control Letters, 2004, 52, 305-322.	2.3	130
11	Output Feedback Stabilization of Linear Systems With Actuator Saturation. IEEE Transactions on Automatic Control, 2007, 52, 122-128.	5.7	93
12	Analysis and control of switched linear systems via dwell-time min-switching. Systems and Control Letters, 2014, 70, 8-16.	2.3	88
13	LMI-based robust model predictive control and its application to an industrial CSTR problem. Journal of Process Control, 2001, 11, 649-659.	3.3	78
14	Distributed control for interconnected linear parameter-dependent systems. IET Control Theory and Applications, 2003, 150, 518-527.	1.7	64
15	Output feedback control of saturated discrete-time linear systems using parameter-dependent Lyapunov functions. Systems and Control Letters, 2008, 57, 896-903.	2.3	64
16	Extended anti-windup control schemes for LTI and LFT systems with actuator saturations. International Journal of Robust and Nonlinear Control, 2004, 14, 1255-1281.	3.7	58
17	Dynamic Output Feedback Control for Continuous-Time Tâ€S Fuzzy Systems Using Fuzzy Lyapunov Functions. IEEE Transactions on Fuzzy Systems, 2017, 25, 1155-1167.	9.8	58
18	Fault-Tolerant Attitude Control for Rigid Spacecraft Without Angular Velocity Measurements. IEEE Transactions on Cybernetics, 2021, 51, 1216-1229.	9.5	58

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19	H ∞ and L2 - to - L ∞ gain control of linear parameter-varying systems with parameter-varying delays. IET Control Theory and Applications, 2003, 150, 509-517.	1.7	53
20	SOS-based solution approach to polynomial LPV system analysis and synthesis problems. International Journal of Control, 2005, 78, 600-611.	1.9	53
21	Switching control of linear systems subject to asymmetric actuator saturation. International Journal of Control, 2015, 88, 204-215.	1.9	52
22	Nonlinear H ∞ Control Designs with Axisymmetric Spacecraft Control. Journal of Guidance, Control, and Dynamics, 2009, 32, 850-859.	2.8	48
23	Systematic Gain-Scheduling Control Design: A Missile Autopilot Example. Asian Journal of Control, 2002, 4, 341-347.	3.0	44
24	Output-feedback control of LPV sampled-data systems. International Journal of Control, 2002, 75, 252-264.	1.9	39
25	Regional stabilisation of polynomial non-linear systems using rational Lyapunov functions. International Journal of Control, 2009, 82, 1605-1615.	1.9	39
26	Linear Parameter-Varying Antiwindup Compensation for Enhanced Flight Control Performance. Journal of Guidance, Control, and Dynamics, 2005, 28, 494-505.	2.8	37
27	Output feedback stabilization of linear systems with actuator saturation. , 0, , .		37
28	Induced L2 norm model reduction of polytopic uncertain linear systems. Automatica, 1996, 32, 1417-1426.	5.0	35
29	LPV control design for pitch-axis missile autopilots. , 0, , .		34
30	Delay Scheduled Impulsive Control for Networked Control Systems. IEEE Transactions on Control of Network Systems, 2017, 4, 587-597.	3.7	33
31	Analysis and control of switched linear systems via modified Lyapunov-Metzler inequalities. International Journal of Robust and Nonlinear Control, 2014, 24, 276-294.	3.7	31
32	Hybrid Switched Gain-Scheduling Control for Missile Autopilot Design. Journal of Guidance, Control, and Dynamics, 2016, 39, 2352-2363.	2.8	30
33	Output-feedback control for switched linear systems subject to actuator saturation. International Journal of Control, 2012, 85, 1532-1545.	1.9	28
34	Asynchronous switching output feedback control of discrete-time switched linear systems. International Journal of Control, 2015, 88, 1766-1774.	1.9	28
35	New Controllability Conditions for Networked, Identical LTI Systems. IEEE Transactions on Automatic Control, 2019, 64, 4223-4228.	5.7	28
36	Exact-memory and memoryless control of linear systems with time-varying input delay using dynamic IQCs. Automatica, 2017, 77, 246-253.	5.0	24

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37	Almost output regulation of switched linear dynamics with switched exosignals. International Journal of Robust and Nonlinear Control, 2017, 27, 3197-3217.	3.7	22
38	Disturbance attenuation by output feedback for linear systems subject to actuator saturation. International Journal of Robust and Nonlinear Control, 2009, 19, 168-184.	3.7	21
39	Probabilistic Robust Linear Parameter-Varying Control of an F-16 Aircraft. Journal of Guidance, Control, and Dynamics, 2006, 29, 1454-1460.	2.8	19
40	A switching control approach for linear systems subject to asymmetric actuator saturation. , 2014, , .		19
41	Robust parameter-dependent fault-tolerant control for actuator and sensor faults. International Journal of Control, 2010, 83, 1475-1484.	1.9	18
42	Dynamic IQC-Based Control of Uncertain LFT Systems With Time-Varying State Delay. IEEE Transactions on Cybernetics, 2016, 46, 3320-3329.	9.5	18
43	Induced L_2 -norm control for LPV system with bounded parameter variation rates. , 0, , .		17
44	On convexified robust control synthesis. Automatica, 2004, 40, 1003-1010.	5.0	17
45	Modeling and Control of Drill-String System With Stick-Slip Vibrations Using LPV Technique. IEEE Transactions on Control Systems Technology, 2021, 29, 718-730.	5.2	17
46	Remaining useful life prediction of PEMFC based on cycle reservoir with jump model. International Journal of Hydrogen Energy, 2021, 46, 40001-40013.	7.1	17
47	Robust fault detection and isolation for parameter-dependent LFT systems. International Journal of Robust and Nonlinear Control, 2010, 20, 764-776.	3.7	16
48	Switching fault-tolerant control of a flexible air-breathing hypersonic vehicle. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2013, 227, 24-38.	1.0	16
49	Analysis and synthesis of linear hybrid systems with state-triggered jumps. Nonlinear Analysis: Hybrid Systems, 2014, 14, 47-60.	3.5	16
50	Anti-windup controller synthesis via linear parameter-varying control design methods. , 1998, , .		15
51	Robust H_2 and H_∞ switched feedforward control of uncertain LFT systems. International Journal of Robust and Nonlinear Control, 2016, 26, 1841-1856.	3.7	15
52	Consensus for multi-agent systems with time-varying input delays. International Journal of Systems Science, 2017, 48, 2956-2966.	5.5	15
53	A new solution approach to polynomial LPV system analysis and synthesis. , 2004, , .		14
54	Robust and gain-scheduling control of LFT systems through duality and conjugate Lyapunov functions. International Journal of Control, 2007, 80, 555-568.	1.9	14

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55	Hybrid almost output regulation of linear impulsive systems with average dwell-time. Nonlinear Analysis: Hybrid Systems, 2016, 20, 82-94.	3.5	14
56	Robust quadratic performance for time-delayed uncertain linear systems. International Journal of Robust and Nonlinear Control, 2003, 13, 153-172.	3.7	12
57	Distributed Parameter-Dependent Modeling and Control of Flexible Structures. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2005, 127, 230-239.	1.6	12
58	Computationally Efficient Algorithm For Frequency-Weighted Optimal H_2 Model Reduction. Asian Journal of Control, 2003, 5, 341-349.	3.0	12
59	Almost output regulation for parameter-dependent linear fractional transformation systems. IET Control Theory and Applications, 2008, 2, 200-209.	2.1	12
60	Switching-based fault-tolerant control for an F-16 aircraft with thrust vectoring. , 2009, , .		12
61	H-Infinity LPV State Feedback Control for Flexible Hypersonic Vehicle Longitudinal Dynamics. , 2010, , .		12
62	Generalized nonlinear H_∞ synthesis condition with its numerically efficient solution. International Journal of Robust and Nonlinear Control, 2011, 21, 2079-2100.	3.7	12
63	Multiobjective fault detection and isolation for flexible air-breathing hypersonic vehicle. Journal of Systems Engineering and Electronics, 2011, 22, 52-62.	2.2	12
64	Optimal LQG performance of linear uncertain systems using state-feedback. , 0, , .		10
65	Switching LPV control design for magnetic bearing systems. , 0, , .		9
66	A distributed parameter dependent control design for a flexible beam problem. , 2002, , .		9
67	Gain-scheduling control of T-S fuzzy systems with actuator saturation. Journal of Intelligent and Fuzzy Systems, 2017, 32, 2579-2589.	1.4	9
68	Fault Estimation Observer Design for Markovian Jump Systems With Nondifferentiable Actuator and Sensor Failures. IEEE Transactions on Cybernetics, 2023, 53, 3844-3858.	9.5	9
69	Duality and basis functions for robust H_2 -performance analysis. Automatica, 1997, 33, 1949-1959.	5.0	8
70	Aggregate control of clustered networks with inter-cluster time delays. , 2016, , .		8
71	Cooperative state estimation of multi-agent systems subject to bounded external disturbances. International Journal of Systems Science, 2018, 49, 1985-1996.	5.5	8
72	Robust consensus for linear multi-agent systems with structured uncertainties. International Journal of Control, 2021, 94, 675-686.	1.9	8

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73	LPV systems with parameter-varying time delays. , 0, , .		7
74	Nonlinear output feedback H ∞ control for polynomial nonlinear systems. , 2008, , .		7
75	Control of Polynomial Nonlinear Systems Using Higher Degree Lyapunov Functions. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	1.6	7
76	Gain scheduling output feedback control of linear plants with actuator saturation. Journal of the Franklin Institute, 2015, 352, 4163-4187.	3.4	7
77	A Gain-Scheduling Control Approach for Takagi-Sugeno Fuzzy Systems Based on Linear Parameter-Varying Control Theory. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	1.6	7
78	New results on switched linear systems with actuator saturation. International Journal of Systems Science, 2016, 47, 1008-1020.	5.5	7
79	Iterative-Learning-Control-Based Tracking for Asteroid Close-Proximity Operations. Journal of Guidance, Control, and Dynamics, 2019, 42, 1195-1203.	2.8	7
80	LPV Controller Interpolation for Improved Gain-Scheduling Control Performance. , 2002, , .		6
81	LPV Antiwindup Compensation for Enhanced Flight Control Performance. , 2003, , .		6
82	Online Switching Control of LFT Parameter-Dependent Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, .	1.6	6
83	Robust Control of Switched Linear Systems via Min of Quadratics. , 2013, , .		6
84	Output feedback reset control of general MIMO LTI systems. , 2014, , .		6
85	Robust switching output-feedback control of time-varying polytopic uncertain systems. International Journal of Control, 2016, 89, 2262-2276.	1.9	6
86	Almost output regulation of LFT systems via gain-scheduling control. International Journal of Control, 2018, 91, 1161-1170.	1.9	6
87	Convexified output-feedback consensus synthesis for linear multi-agent systems. IET Control Theory and Applications, 2019, 13, 1619-1628.	2.1	6
88	Control of linear fractional transformations. , 0, , .		5
89	An unified framework for LPV system analysis and control synthesis. , 0, , .		5
90	Numerical algorithm for model reduction of polytopic uncertain linear systems. , 2002, , .		5

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91	Switching LPV Control for a High Performance Tactical Aircraft. , 2004, , .		5
92	A robust fault tolerant control approach for LTI systems with actuator and sensor faults. , 2009, , .		5
93	Adaptive control design for uncertain polynomial nonlinear systems with parametric uncertainties. International Journal of Adaptive Control and Signal Processing, 2011, 25, 502-518.	4.1	5
94	Hybrid synthesis for almost asymptotic regulation of linear impulsive systems with average dwell time. , 2014, , .		5
95	Output feedback control of linear fractional transformation systems subject to actuator saturation. International Journal of Systems Science, 2016, 47, 3646-3655.	5.5	5
96	Piecewise Lyapunov function based stability analysis of fuzzy parameter varying systems. , 2017, , .		5
97	Tracking control of hybrid systems with state-triggered jumps and stochastic events and its application. IET Control Theory and Applications, 2017, 11, 1024-1033.	2.1	5
98	Cooperative output regulation of multi-agent systems with switched leader dynamics. International Journal of Systems Science, 2018, 49, 1463-1477.	5.5	5
99	Sparsity-Constrained Mixed H_2/H_∞ Control. , 2018, , .		5
100	LQG control design for LPV systems. , 0, , .		4
101	LMI-based robust model predictive control evaluated on an industrial CSTR model. , 0, , .		4
102	Control design for nonlinear process models using linear robust control methods: An FCCU example. Computers and Chemical Engineering, 1997, 21, S595-S600.	3.8	4
103	Control design of switched LPV systems using multiple parameter-dependent Lyapunov functions. , 2004, , .		4
104	Probabilistic Robust Control Design for an F-16 Aircraft. , 2005, , .		4
105	Robust receding horizon control for constrained linear fractional transformation parameter-dependent systems. IET Control Theory and Applications, 2007, 1, 1423-1430.	2.1	4
106	Lyapunov redesign of adaptive controllers for polynomial nonlinear systems. , 2009, , .		4
107	Nonlinear gain-scheduling output-feedback control for polynomial nonlinear systems subject to actuator saturation. International Journal of Control, 2013, 86, 1607-1619.	1.9	4
108	Almost output regulation of discrete-time switched linear systems. , 2015, , .		4

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109	Analysis and control of genetic regulatory systems with switched drug inputs. , 2016, , .		4
110	Adaptive control of full information problem. , 0, , .		3
111	State-feedback control of LPV sampled-data systems. , 0, , .		3
112	Output-feedback control of LPV sampled-data systems. , 2000, , .		3
113	Anti-windup control for unstable LTI systems. , 0, , .		3
114	Improving nonlinear control performance with a hybrid control strategy. , 2007, , .		3
115	Dwell-time min-switching for discrete-time switched linear systems. , 2014, , .		3
116	Stability analysis and controller design for a novel nonlinear system: Fuzzy parameter varying system1. Journal of Intelligent and Fuzzy Systems, 2018, 34, 4387-4395.	1.4	3
117	observerâ€”controller synthesis approach in low frequency for Tâ€™S fuzzy systems. IET Control Theory and Applications, 2020, 14, 738-749.	2.1	3
118	Switching Anti-windup Control for Aircraft Engines. IEEE Transactions on Industrial Electronics, 2023, 70, 1830-1840.	7.9	3
119	Distributed control for distributed linear parameter varying systems. , 2001, , .		2
120	Convexified robust control approach and its application to actuator saturation control. , 0, , .		2
121	Disturbance Attenuation for Linear Systems Subject to Actuator Saturation using Output Feedback. , 0, , .		2
122	Confidence interval networks for bounding model uncertainty: experimental evaluations on an active magnetic bearing system. , 0, , .		2
123	Online Switching Control Designs of LFT Systems. , 2006, , .		2
124	Optimal Control for Spacecraft Large Angle Manuevers Using H infinity Linear Varying Parameter Control Techniques. , 2008, , .		2
125	A Multiobjective Solution Approach to Fault Detection and Isolation of LPV Systems. , 2008, , .		2
126	Control for discrete-time fuzzy Markov jump systems with mode-dependent antecedent parts. , 2014, , .		2

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127	Robust Gain-Scheduling Output Feedback Control of State-Delayed LFT Systems Using Dynamic IQCs. , 2015, , .		2
128	Robust switching output feedback control of discrete-time linear polytopic uncertain systems. , 2015, , .		2
129	Robust H_∞ state-feedback control of linear systems with time-varying input delays. , 2016, , .		2
130	Cooperative Output Regulation of Multi-Agent Systems With Switched Leader Dynamics via Smooth Switching. , 2017, , .		2
131	Time-Based Switching Control of Genetic Regulatory Networks: Toward Sequential Drug Intake for Cancer Therapy. Cancer Informatics, 2017, 16, 117693511770688.	1.9	2
132	Distributed Consensus Control for General Uncertain Linear Multi-Agent Systems. , 2018, , .		2
133	LPV H_∞ Control for Flexible Hypersonic Vehicle. , 2012, , 413-444.		2
134	Necessary and sufficient conditions for the controllability of chain-shape networks. , 2017, , .		2
135	Extended LTI anti-windup control with actuator magnitude and rate saturations. , 0, , .		1
136	Solutions to frequency weighted optimal H_2/H_∞ model reduction problem. , 1997, , .		1
137	Robust H_2 performance analysis for a high-purity distillation column. Computers and Chemical Engineering, 1997, 21, S161-S166.	3.8	1
138	Robust and gain-scheduled H_2 synthesis for LFT parameter-dependent systems. , 0, , .		1
139	Gain-scheduling control of LFT systems using parameter-dependent lyapunov functions. , 0, , .		1
140	Post-Stall Aerodynamic Modeling and Gain-Scheduled Control Design. , 2005, , .		1
141	Output regulation for parameter-dependent LFT systems. , 2006, , .		1
142	Gain-scheduled control of LFT systems through duality and conjugate Lyapunov functions. , 2006, , .		1
143	Output Feedback Control for Continuous-Time Switched Linear Systems Subject to Actuator Saturation. , 2011, , .		1
144	Switching control synthesis for discrete-time switched linear systems via modified Lyapunov-Metzler inequalities. , 2012, , .		1

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145	Dynami ^e output feedback controller design for T-S fuzzy plants with actuator saturation using linear fractional transformation. , 2014, , .		1
146	Dynamic IQC-based analysis and synthesis of networked control systems. , 2016, , .		1
147	Stability Analysis and Controller Design for Fuzzy Parameter Varying Systems Based on Fuzzy Lyapunov Function. , 2018, , .		1
148	Cooperative Deterministic Learning-Based Trajectory Tracking for a Group of Unicycle-Type Vehicles. , 2018, , .		1
149	\mathcal{H}_{∞} Consensus Control of Multi-Agent Systems Subject to Diverse Time-Varying Input Delays via Dynamic Output Feedback. , 2018, , .		1
150	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi mathvariant="script"} \rangle H \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{z} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ consensus synthesis of multiagent systems with nonuniform time-varying input delays: A dynamic IQC approach. , 2019, , 99-122.		
151	Advanced controller synthesis for fuzzy parameter varying systems. Journal of the Franklin Institute, 2022, 359, 762-785.	3.4	1
152	Distributed Parameter Dependent Modeling and Control of Flexible Structures. , 2002, , .		1
153	Duality for robust $\hat{a}_{\infty,2}$ performance analysis. , 0, , .		0
154	Robust $H_{\infty,2}$ performance of uncertain linear systems with bounded parameter variations. , 2000, , .		0
155	Robust quadratic performance analysis and synthesis for time-delayed uncertain linear systems. , 2000, , .		0
156	Improving robust control performance through on-line optimization. , 2002, , .		0
157	Output Feedback Control of Saturated Linear Systems Using Parameter-Dependent Lyapunov Functions. , 2005, , 49.		0
158	A gain-scheduling control approach to stabilization of LTI systems with generalized saturation input. , 2006, , .		0
159	State Feedback and Output Feedback Control of Polynomial Nonlinear Systems Using Fractional Lyapunov Functions. , 2007, , 897.		0
160	Output Feedback Stabilization of Saturated LFT Systems. , 2007, , .		0
161	Output Feedback RHC for Constrained Linear Systems. , 2007, , 889.		0
162	Resilient control design for polynomial nonlinear systems with controller gain variations. , 2010, , .		0

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163	Nonlinear Robust H^∞ Control With State-Dependent Scaling. , 2011, , .		0
164	Feedback Design for Saturated Polynomial Nonlinear Systems via Higher Order Lyapunov Functions. , 2012, , .		0
165	New Results on Continuous-Time Switched Linear Systems With Actuator Saturation. , 2013, , .		0
166	Robust Switched Filtering for Time-Varying Polytopic Uncertain Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	1.6	0
167	Gain-scheduling compensator synthesis for output regulation of nonlinear systems. , 2013, , .		0
168	Gain Scheduling Output Feedback Control of Linear Plants with Partial Actuator Saturation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 9486-9491.	0.4	0
169	An Optimization-Based Approach for Prosthesis Dynamic Modeling and Parameter Identification. , 2015, , .		0
170	Robust fault detection filter design for linear uncertain systems with unknown inputs. , 2015, , .		0
171	Output Feedback Control for Fuzzy Systems Subject to Actuator Saturation Based on Fuzzy Lyapunov Functions. , 2016, , .		0
172	A Nonlinear Gain-Scheduling Compensation Approach Using Parameter-Dependent Lyapunov Functions. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	1.6	0
173	Robust H_∞ Switching Control of Polytopic Parameter-Varying Systems via Dynamic Output Feedback. , 2016, , 53-72.		0
174	A new hybrid LFT control method for missile autopilot design. , 2016, , .		0
175	New Developments in Multibody System Dynamics and Its Applications 2015. Advances in Mechanical Engineering, 2017, 9, 168781401769568.	1.6	0
176	A Novel Distributed Adaptive Output-Feedback Consensus Protocol for Linear Multi-Agent Systems. , 2019, , .		0
177	Special issue on advanced analysis and control design of switching linear parameter-varying systems and its applications. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2019, 233, 3-4.	1.0	0
178	Robust output feedback control of linear state-delayed systems using dynamic IQCs. , 2021, , 383-412.		0
179	Constrained Distributed RHC Based on Vector Lyapunov Functions and Comparison Model. , 2007, , .		0
180	Recursive Methods for Model Validation. , 1993, , .		0