

Fen Wu

List of Publications by Year in descending order

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180
papers

4,214
citations

172457

29
h-index

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60
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181
all docs

181
docs citations

181
times ranked

1845
citing authors

#	ARTICLE	IF	CITATIONS
1	Switching Anti-windup Control for Aircraft Engines. IEEE Transactions on Industrial Electronics, 2023, 70, 1830-1840.	7.9	3
2	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
3	Advanced controller synthesis for fuzzy parameter varying systems. Journal of the Franklin Institute, 2022, 359, 762-785.	3.4	1
4	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
5	Robust consensus for linear multi-agent systems with structured uncertainties. International Journal of Control, 2021, 94, 675-686.	1.9	8
6	Fault-Tolerant Attitude Control for Rigid Spacecraft Without Angular Velocity Measurements. IEEE Transactions on Cybernetics, 2021, 51, 1216-1229.	9.5	58
7	Robust output feedback control of linear state-delayed systems using dynamic IQCs. , 2021, , 383-412.		0
8	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
9	observer controller synthesis approach in low frequency for Tâ€™S fuzzy systems. IET Control Theory and Applications, 2020, 14, 738-749.	2.1	3
10	Convexified output feedback consensus synthesis for linear multi-agent systems. IET Control Theory and Applications, 2019, 13, 1619-1628.	2.1	6
11	$H = \begin{matrix} \text{consensus synthesis of multiagent systems with nonuniform time-varying input delays: A dynamic IQC approach.} \\ \text{, 2019, , 99-122.} \end{matrix}$		
12	New Controllability Conditions for Networked, Identical LTI Systems. IEEE Transactions on Automatic Control, 2019, 64, 4223-4228.	5.7	28
13	A Novel Distributed Adaptive Output-Feedback Consensus Protocol for Linear Multi-Agent Systems. , 2019, , .		0
14	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
15	Iterative-Learning-Control-Based Tracking for Asteroid Close-Proximity Operations. Journal of Guidance, Control, and Dynamics, 2019, 42, 1195-1203.	2.8	7
16	Cooperative output regulation of multi-agent systems with switched leader dynamics. International Journal of Systems Science, 2018, 49, 1463-1477.	5.5	5
17	Almost output regulation of LFT systems via gain-scheduling control. International Journal of Control, 2018, 91, 1161-1170.	1.9	6
18	Distributed Consensus Control for General Uncertain Linear Multi-Agent Systems. , 2018, , .		2

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19	Stability Analysis and Controller Design for Fuzzy Parameter Varying Systems Based on Fuzzy Lyapunov Function. , 2018, , .		1
20	Sparsity-Constrained Mixed H_2/H_∞ Control. , 2018, , .		5
21	Cooperative Deterministic Learning-Based Trajectory Tracking for a Group of Unicycle-Type Vehicles. , 2018, , .		1
22	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
23	H_∞ Consensus Control of Multi-Agent Systems Subject to Diverse Time-Varying Input Delays via Dynamic Output Feedback. , 2018, , .		1
24	Cooperative state estimation of multi-agent systems subject to bounded external disturbances. International Journal of Systems Science, 2018, 49, 1985-1996.	5.5	8
25	Delay Scheduled Impulsive Control for Networked Control Systems. IEEE Transactions on Control of Network Systems, 2017, 4, 587-597.	3.7	33
26	Almost output regulation of switched linear dynamics with switched exosignals. International Journal of Robust and Nonlinear Control, 2017, 27, 3197-3217.	3.7	22
27	Exact-memory and memoryless control of linear systems with time-varying input delay using dynamic IQCs. Automatica, 2017, 77, 246-253.	5.0	24
28	Gain-scheduling control of T-S fuzzy systems with actuator saturation. Journal of Intelligent and Fuzzy Systems, 2017, 32, 2579-2589.	1.4	9
29	New Developments in Multibody System Dynamics and Its Applications 2015. Advances in Mechanical Engineering, 2017, 9, 168781401769568.	1.6	0
30	Consensus for multi-agent systems with time-varying input delays. International Journal of Systems Science, 2017, 48, 2956-2966.	5.5	15
31	Dynamic Output Feedback Control for Continuous-Time T-S Fuzzy Systems Using Fuzzy Lyapunov Functions. IEEE Transactions on Fuzzy Systems, 2017, 25, 1155-1167.	9.8	58
32	Piecewise Lyapunov function based stability analysis of fuzzy parameter varying systems. , 2017, , .		5
33	Cooperative Output Regulation of Multi-Agent Systems With Switched Leader Dynamics via Smooth Switching. , 2017, , .		2
34	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
35	Time-Based Switching Control of Genetic Regulatory Networks: Toward Sequential Drug Intake for Cancer Therapy. Cancer Informatics, 2017, 16, 117693511770688.	1.9	2
36	Necessary and sufficient conditions for the controllability of chain-shape networks. , 2017, , .		2

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37	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
38	Output Feedback Control for Fuzzy Systems Subject to Actuator Saturation Based on Fuzzy Lyapunov Functions. , 2016, , .		0
39	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
40	H_∞ state-feedback control of linear systems with time-varying input delays. , 2016, , .		2
41	Dynamic IQC-based analysis and synthesis of networked control systems. , 2016, , .		1
42	Hybrid Switched Gain-Scheduling Control for Missile Autopilot Design. Journal of Guidance, Control, and Dynamics, 2016, 39, 2352-2363.	2.8	30
43	Aggregate control of clustered networks with inter-cluster time delays. , 2016, , .		8
44	Robust H_∞ Switching Control of Polytopic Parameter-Varying Systems via Dynamic Output Feedback. , 2016, , 53-72.		0
45	A new hybrid LFT control method for missile autopilot design. , 2016, , .		0
46	Analysis and control of genetic regulatory systems with switched drug inputs. , 2016, , .		4
47	Robust switching output-feedback control of time-varying polytopic uncertain systems. International Journal of Control, 2016, 89, 2262-2276.	1.9	6
48	Hybrid almost output regulation of linear impulsive systems with average dwell-time. Nonlinear Analysis: Hybrid Systems, 2016, 20, 82-94.	3.5	14
49	Dynamic IQC-Based Control of Uncertain LFT Systems With Time-Varying State Delay. IEEE Transactions on Cybernetics, 2016, 46, 3320-3329.	9.5	18
50	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
51	Output feedback control of linear fractional transformation systems subject to actuator saturation. International Journal of Systems Science, 2016, 47, 3646-3655.	5.5	5
52	New results on switched linear systems with actuator saturation. International Journal of Systems Science, 2016, 47, 1008-1020.	5.5	7
53	An Optimization-Based Approach for Prosthesis Dynamic Modeling and Parameter Identification. , 2015, , .		0
54	Robust Gain-Scheduling Output Feedback Control of State-Delayed LFT Systems Using Dynamic IQCs. , 2015, , .		2

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55	Asynchronous switching output feedback control of discrete-time switched linear systems. International Journal of Control, 2015, 88, 1766-1774.	1.9	28
56	Gain scheduling output feedback control of linear plants with actuator saturation. Journal of the Franklin Institute, 2015, 352, 4163-4187.	3.4	7
57	Robust fault detection filter design for linear uncertain systems with unknown inputs. , 2015, , .		0
58	Robust switching output feedback control of discrete-time linear polytopic uncertain systems. , 2015, , .		2
59	Almost output regulation of discrete-time switched linear systems. , 2015, , .		4
60	Switching control of linear systems subject to asymmetric actuator saturation. International Journal of Control, 2015, 88, 204-215.	1.9	52
61	Hybrid Control for Switched Linear Systems With Average Dwell Time. IEEE Transactions on Automatic Control, 2015, 60, 240-245.	5.7	131
62	A switching control approach for linear systems subject to asymmetric actuator saturation. , 2014, , .		19
63	Hybrid synthesis for almost asymptotic regulation of linear impulsive systems with average dwell time. , 2014, , .		5
64	Control for discrete-time fuzzy Markov jump systems with mode-dependent antecedent parts. , 2014, , .		2
65	Analysis and control of switched linear systems via modified Lyapunovâ€“Metzler inequalities. International Journal of Robust and Nonlinear Control, 2014, 24, 276-294.	3.7	31
66	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
67	Dynamic output feedback controller design for T-S fuzzy plants with actuator saturation using linear fractional transformation. , 2014, , .		1
68	Dwell-time min-switching for discrete-time switched linear systems. , 2014, , .		3
69	Output feedback reset control of general MIMO LTI systems. , 2014, , .		6
70	Analysis and synthesis of linear hybrid systems with state-triggered jumps. Nonlinear Analysis: Hybrid Systems, 2014, 14, 47-60.	3.5	16
71	Analysis and control of switched linear systems via dwell-time min-switching. Systems and Control Letters, 2014, 70, 8-16.	2.3	88
72	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

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73	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
74	New Results on Continuous-Time Switched Linear Systems With Actuator Saturation. , 2013, , .		0
75	Robust Control of Switched Linear Systems via Min of Quadratics. , 2013, , .		6
76	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
77	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
78	Gain-scheduling compensator synthesis for output regulation of nonlinear systems. , 2013, , .		0
79	Switching control synthesis for discrete-time switched linear systems via modified Lyapunov-Metzler inequalities. , 2012, , .		1
80	Feedback Design for Saturated Polynomial Nonlinear Systems via Higher Order Lyapunov Functions. , 2012, , .		0
81	Output-feedback control for switched linear systems subject to actuator saturation. International Journal of Control, 2012, 85, 1532-1545.	1.9	28
82	LPV H _∞ Control for Flexible Hypersonic Vehicle. , 2012, , 413-444.		2
83	Nonlinear Robust H _∞ Control With State-Dependent Scaling. , 2011, , .		0
84	Generalized nonlinear H _∞ synthesis condition with its numerically efficient solution. International Journal of Robust and Nonlinear Control, 2011, 21, 2079-2100.	3.7	12
85	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
86	Output Feedback Control for Continuous-Time Switched Linear Systems Subject to Actuator Saturation. , 2011, , .		1
87	Multiobjective fault detection and isolation for flexible air-breathing hypersonic vehicle. Journal of Systems Engineering and Electronics, 2011, 22, 52-62.	2.2	12
88	Robust fault detection and isolation for parameter-dependent LFT systems. International Journal of Robust and Nonlinear Control, 2010, 20, 764-776.	3.7	16
89	Resilient control design for polynomial nonlinear systems with controller gain variations. , 2010, , .		0
90	H-Infinity LPV State Feedback Control for Flexible Hypersonic Vehicle Longitudinal Dynamics. , 2010, , .		12

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91	Robust parameter-dependent fault-tolerant control for actuator and sensor faults. International Journal of Control, 2010, 83, 1475-1484.	1.9	18
92	Switching-based fault-tolerant control for an F-16 aircraft with thrust vectoring. , 2009, , .		12
93	Lyapunov redesign of adaptive controllers for polynomial nonlinear systems. , 2009, , .		4
94	Nonlinear H _∞ Control Designs with Axisymmetric Spacecraft Control. Journal of Guidance, Control, and Dynamics, 2009, 32, 850-859.	2.8	48
95	Online Switching Control of LFT Parameter-Dependent Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, .	1.6	6
96	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
97	Regional stabilisation of polynomial non-linear systems using rational Lyapunov functions. International Journal of Control, 2009, 82, 1605-1615.	1.9	39
98	A robust fault tolerant control approach for LTI systems with actuator and sensor faults. , 2009, , .		5
99	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
100	Nonlinear output feedback H _∞ control for polynomial nonlinear systems. , 2008, , .		7
101	Optimal Control for Spacecraft Large Angle Manuevers Using H _∞ Linear Varying Parameter Control Techniques. , 2008, , .		2
102	Almost output regulation for parameter-dependent linear fractional transformation systems. IET Control Theory and Applications, 2008, 2, 200-209.	2.1	12
103	A Multiobjective Solution Approach to Fault Detection and Isolation of LPV Systems. , 2008, , .		2
104	State Feedback and Output Feedback Control of Polynomial Nonlinear Systems Using Fractional Lyapunov Functions. , 2007, , 897.		0
105	Improving nonlinear control performance with a hybrid control strategy. , 2007, , .		3
106	Output Feedback Stabilization of Saturated LFT Systems. , 2007, , .		0
107	Output Feedback RHC for Constrained Linear Systems. , 2007, , 889.		0
108	Robust receding horizon control for constrained linear fractional transformation parameter-dependent systems. IET Control Theory and Applications, 2007, 1, 1423-1430.	2.1	4

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109	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
110	Output Feedback Stabilization of Linear Systems With Actuator Saturation. IEEE Transactions on Automatic Control, 2007, 52, 122-128.	5.7	93
111	Constrained Distributed RHC Based on Vector Lyapunov Functions and Comparison Model. , 2007, , .		0
112	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
113	Probabilistic Robust Linear Parameter-Varying Control of an F-16 Aircraft. Journal of Guidance, Control, and Dynamics, 2006, 29, 1454-1460.	2.8	19
114	Gain-scheduling control of LFT systems using parameter-dependent Lyapunov functions. Automatica, 2006, 42, 39-50.	5.0	173
115	Output regulation for parameter-dependent LFT systems. , 2006, , .		1
116	Online Switching Control Designs of LFT Systems. , 2006, , .		2
117	Gain-scheduled control of LFT systems through duality and conjugate Lyapunov functions. , 2006, , .		1
118	A gain-scheduling control approach to stabilization of LTI systems with generalized saturation input. , 2006, , .		0
119	Output Feedback Control of Saturated Linear Systems Using Parameter-Dependent Lyapunov Functions. , 2005, , 49.		0
120	Linear Parameter-Varying Antiwindup Compensation for Enhanced Flight Control Performance. Journal of Guidance, Control, and Dynamics, 2005, 28, 494-505.	2.8	37
121	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
122	SOS-based solution approach to polynomial LPV system analysis and synthesis problems. International Journal of Control, 2005, 78, 600-611.	1.9	53
123	Probabilistic Robust Control Design for an F-16 Aircraft. , 2005, , .		4
124	Post-Stall Aerodynamic Modeling and Gain-Scheduled Control Design. , 2005, , .		1
125	Control design of switched LPV systems using multiple parameter-dependent Lyapunov functions. , 2004, , .		4
126	A new solution approach to polynomial LPV system analysis and synthesis. , 2004, , .		14

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127	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
128	Anti-windup control design for exponentially unstable LTI systems with actuator saturation. Systems and Control Letters, 2004, 52, 305-322.	2.3	130
129	On convexified robust control synthesis. Automatica, 2004, 40, 1003-1010.	5.0	17
130	Switching LPV control designs using multiple parameter-dependent Lyapunov functions. Automatica, 2004, 40, 1973-1980.	5.0	224
131	Switching LPV Control for a High Performance Tactical Aircraft. , 2004, , .		5
132	Distributed control for interconnected linear parameter-dependent systems. IET Control Theory and Applications, 2003, 150, 518-527.	1.7	64
133	H _∞ and L ₂ - 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
134	Robust quadratic performance for time-delayed uncertain linear systems. International Journal of Robust and Nonlinear Control, 2003, 13, 153-172.	3.7	12
135	LPV Antiwindup Compensation for Enhanced Flight Control Performance. , 2003, , .		6
136	Computationally Efficient Algorithm For Frequency-Weighted Optimal H_{∞} Model Reduction. Asian Journal of Control, 2003, 5, 341-349.	3.0	12
137	Output-feedback control of LPV sampled-data systems. International Journal of Control, 2002, 75, 252-264.	1.9	39
138	Numerical algorithm for model reduction of polytopic uncertain linear systems. , 2002, , .		5
139	Improving robust control performance through on-line optimization. , 2002, , .		0
140	A distributed parameter dependent control design for a flexible beam problem. , 2002, , .		9
141	LPV Controller Interpolation for Improved Gain-Scheduling Control Performance. , 2002, , .		6
142	Systematic Gain-Scheduling Control Design: A Missile Autopilot Example. Asian Journal of Control, 2002, 4, 341-347.	3.0	44
143	Distributed Parameter Dependent Modeling and Control of Flexible Structures. , 2002, , .		1
144	A generalized LPV system analysis and control synthesis framework. International Journal of Control, 2001, 74, 745-759.	1.9	195

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145	LPV Systems with parameter-varying time delays: analysis and control. Automatica, 2001, 37, 221-229.	5.0	198
146	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
147	Distributed control for distributed linear parameter varying systems. , 2001, , .		2
148	Output-feedback control of LPV sampled-data systems. , 2000, , .		3
149	Robust H/sub 2/ performance of uncertain linear systems with bounded parameter variations. , 2000, , .		0
150	Robust quadratic performance analysis and synthesis for time-delayed uncertain linear systems. , 2000, , .		0
151	Anti-windup controller design using linear parameter-varying control methods. International Journal of Control, 2000, 73, 1104-1114.	1.9	158
152	Anti-windup controller synthesis via linear parameter-varying control design methods. , 1998, , .		15
153	Solutions to frequency weighted optimal H/sub /spl infin// model reduction problem. , 1997, , .		1
154	RobustH2 performance analysis for a high-purity distillation column. Computers and Chemical Engineering, 1997, 21, S161-S166.	3.8	1
155	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
156	Duality and basis functions for robust H2-performance analysis. Automatica, 1997, 33, 1949-1959.	5.0	8
157	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
158	Induced L2 norm model reduction of polytopic uncertain linear systems. Automatica, 1996, 32, 1417-1426.	5.0	35
159	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
160	Recursive Methods for Model Validation. , 1993, , .		0
161	Extended LTI anti-windup control with actuator magnitude and rate saturations. , 0, , .		1
162	Control of linear fractional transformations. , 0, , .		5

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163	Adaptive control of full information problem. , 0, , .		3
164	LQG control design for LPV systems. , 0, , .		4
165	Induced L_2 -norm control for LPV system with bounded parameter variation rates. , 0, , .		17
166	Optimal LQG performance of linear uncertain systems using state-feedback. , 0, , .		10
167	LPV control design for pitch-axis missile autopilots. , 0, , .		34
168	Duality for robust $\hat{a}_{\infty,2}$ performance analysis. , 0, , .		0
169	LPV systems with parameter-varying time delays. , 0, , .		7
170	LMI-based robust model predictive control evaluated on an industrial CSTR model. , 0, , .		4
171	State-feedback control of LPV sampled-data systems. , 0, , .		3
172	An unified framework for LPV system analysis and control synthesis. , 0, , .		5
173	Switching LPV control design for magnetic bearing systems. , 0, , .		9
174	Anti-windup control for unstable LTI systems. , 0, , .		3
175	Convexified robust control approach and its application to actuator saturation control. , 0, , .		2
176	Robust and gain-scheduled H_2 synthesis for LFT parameter-dependent systems. , 0, , .		1
177	Output feedback stabilization of linear systems with actuator saturation. , 0, , .		37
178	Disturbance Attenuation for Linear Systems Subject to Actuator Saturation using Output Feedback. , 0, , .		2
179	Confidence interval networks for bounding model uncertainty: experimental evaluations on an active magnetic bearing system. , 0, , .		2
180	Gain-scheduling control of LFT systems using parameter-dependent lyapunov functions. , 0, , .		1