

Fen Wu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

135
papers

2,921
citations

26
h-index

52
g-index

181
ext. papers

3,607
ext. citations

3
avg, IF

5.67
L-index

#	Paper	IF	Citations
135	Switching Anti-windup Control for Aircraft Engines. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	0
134	Remaining useful life prediction of PEMFC based on cycle reservoir with jump model. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	3
133	Advanced controller synthesis for fuzzy parameter varying systems. <i>Journal of the Franklin Institute</i> , 2021 , 359, 762-762	4	
132	Modeling and Control of Drill-String System With Stick-Slip Vibrations Using LPV Technique. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 718-730	4.8	4
131	Robust consensus for linear multi-agent systems with structured uncertainties. <i>International Journal of Control</i> , 2021 , 94, 675-686	1.5	6
130	Fault-Tolerant Attitude Control for Rigid Spacecraft Without Angular Velocity Measurements. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 1216-1229	10.2	27
129	Robust output feedback control of linear state-delayed systems using dynamic IQCs 2021 , 383-412		
128	observer-controller synthesis approach in low frequency for TS fuzzy systems. <i>IET Control Theory and Applications</i> , 2020 , 14, 738-749	2.5	2
127	New Controllability Conditions for Networked, Identical LTI Systems. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 4223-4228	5.9	16
126	Convexified output-feedback consensus synthesis for linear multi-agent systems. <i>IET Control Theory and Applications</i> , 2019 , 13, 1619-1628	2.5	1
125	H _∞ consensus synthesis of multiagent systems with nonuniform time-varying input delays: A dynamic IQC approach 2019 , 99-122		1
124	Iterative-Learning-Control-Based Tracking for Asteroid Close-Proximity Operations. <i>Journal of Guidance, Control, and Dynamics</i> , 2019 , 42, 1195-1203	2.1	3
123	Cooperative output regulation of multi-agent systems with switched leader dynamics. <i>International Journal of Systems Science</i> , 2018 , 49, 1463-1477	2.3	5
122	Almost output regulation of LFT systems via gain-scheduling control. <i>International Journal of Control</i> , 2018 , 91, 1161-1170	1.5	3
121	\mathcal{H}_∞ Consensus Control of Multi-Agent Systems Subject to Diverse Time-Varying Input Delays via Dynamic Output Feedback 2018 ,		1
120	Cooperative state estimation of multi-agent systems subject to bounded external disturbances. <i>International Journal of Systems Science</i> , 2018 , 49, 1985-1996	2.3	6
119	Distributed Consensus Control for General Uncertain Linear Multi-Agent Systems 2018 ,		2

118	Sparsity-Constrained Mixed H_2/H_{∞} Control 2018,		3
117	Stability analysis and controller design for a novel nonlinear system: Fuzzy parameter varying system1. <i>Journal of Intelligent and Fuzzy Systems</i> , 2018 , 34, 4387-4395	1.6	1
116	Delay Scheduled Impulsive Control for Networked Control Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2017 , 4, 587-597	4	26
115	Almost output regulation of switched linear dynamics with switched exosignals. <i>International Journal of Robust and Nonlinear Control</i> , 2017 , 27, 3197-3217	3.6	18
114	Exact-memory and memoryless control of linear systems with time-varying input delay using dynamic IQCs. <i>Automatica</i> , 2017 , 77, 246-253	5.7	18
113	Gain-scheduling control of T-S Fuzzy systems with actuator saturation. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017 , 32, 2579-2589	1.6	8
112	Consensus for multi-agent systems with time-varying input delays. <i>International Journal of Systems Science</i> , 2017 , 48, 2956-2966	2.3	11
111	. <i>IEEE Transactions on Fuzzy Systems</i> , 2017 , 25, 1155-1167	8.3	38
110	Piecewise Lyapunov function based stability analysis of fuzzy parameter varying systems 2017,		1
109	Cooperative Output Regulation of Multi-Agent Systems With Switched Leader Dynamics via Smooth Switching 2017,		2
108	Tracking control of hybrid systems with state-triggered jumps and stochastic events and its application. <i>IET Control Theory and Applications</i> , 2017 , 11, 1024-1033	2.5	3
107	Time-Based Switching Control of Genetic Regulatory Networks: Toward Sequential Drug Intake for Cancer Therapy. <i>Cancer Informatics</i> , 2017 , 16, 1176935117706888	2.4	2
106	Necessary and sufficient conditions for the controllability of chain-shape networks 2017,		2
105	New results on switched linear systems with actuator saturation. <i>International Journal of Systems Science</i> , 2016 , 47, 1008-1020	2.3	3
104	Aggregate control of clustered networks with inter-cluster time delays 2016,		3
103	Robust (H_{∞}) Switching Control of Polytopic Parameter-Varying Systems via Dynamic Output Feedback 2016, 53-72		
102	Analysis and control of genetic regulatory systems with switched drug inputs 2016,		2
101	Robust switching output-feedback control of time-varying polytopic uncertain systems. <i>International Journal of Control</i> , 2016 , 89, 2262-2276	1.5	3

100	Hybrid almost output regulation of linear impulsive systems with average dwell-time. <i>Nonlinear Analysis: Hybrid Systems</i> , 2016 , 20, 82-94	4.5	8
99	Dynamic IQC-Based Control of Uncertain LFT Systems With Time-Varying State Delay. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 3320-3329	10.2	15
98	A Gain-Scheduling Control Approach for Takagi-Sugeno Fuzzy Systems Based on Linear Parameter-Varying Control Theory. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2016 , 138,	1.6	7
97	Output feedback control of linear fractional transformation systems subject to actuator saturation. <i>International Journal of Systems Science</i> , 2016 , 47, 3646-3655	2.3	3
96	Robust and switched feedforward control of uncertain LFT systems. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 1841-1856	3.6	14
95	State-feedback control of linear systems with time-varying input delays 2016 ,		2
94	Dynamic IQC-based analysis and synthesis of networked control systems 2016 ,		1
93	Hybrid Switched Gain-Scheduling Control for Missile Autopilot Design. <i>Journal of Guidance, Control, and Dynamics</i> , 2016 , 39, 2352-2363	2.1	21
92	Gain scheduling output feedback control of linear plants with actuator saturation. <i>Journal of the Franklin Institute</i> , 2015 , 352, 4163-4187	4	4
91	Almost output regulation of discrete-time switched linear systems 2015 ,		3
90	Switching control of linear systems subject to asymmetric actuator saturation. <i>International Journal of Control</i> , 2015 , 88, 204-215	1.5	38
89	Hybrid Control for Switched Linear Systems With Average Dwell Time. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 240-245	5.9	99
88	Asynchronous switching output feedback control of discrete-time switched linear systems. <i>International Journal of Control</i> , 2015 , 88, 1766-1774	1.5	22
87	Control of Polynomial Nonlinear Systems Using Higher Degree Lyapunov Functions. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2014 , 136,	1.6	5
86	Dwell-time min-switching for discrete-time switched linear systems 2014 ,		1
85	Output feedback reset control of general MIMO LTI systems 2014 ,		1
84	Analysis and synthesis of linear hybrid systems with state-triggered jumps. <i>Nonlinear Analysis: Hybrid Systems</i> , 2014 , 14, 47-60	4.5	12
83	Analysis and control of switched linear systems via dwell-time min-switching. <i>Systems and Control Letters</i> , 2014 , 70, 8-16	2.4	66

82	Gain Scheduling Output Feedback Control of Linear Plants with Partial Actuator Saturation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 9486-9491		
81	A switching control approach for linear systems subject to asymmetric actuator saturation 2014 ,		14
80	Hybrid synthesis for almost asymptotic regulation of linear impulsive systems with average dwell time 2014 ,		4
79	Control for discrete-time fuzzy Markov jump systems with mode-dependent antecedent parts 2014 ,		2
78	Analysis and control of switched linear systems via modified Lyapunov-Metzler inequalities. <i>International Journal of Robust and Nonlinear Control</i> , 2014 , 24, 276-294	3.6	21
77	Nonlinear gain-scheduling output-feedback control for polynomial nonlinear systems subject to actuator saturation. <i>International Journal of Control</i> , 2013 , 86, 1607-1619	1.5	4
76	Robust Control of Switched Linear Systems via Min of Quadratics 2013 ,		5
75	Switching fault-tolerant control of a flexible air-breathing hypersonic vehicle. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2013 , 227, 24-38	1	11
74	Output-feedback control for switched linear systems subject to actuator saturation. <i>International Journal of Control</i> , 2012 , 85, 1532-1545	1.5	24
73	Switching control synthesis for discrete-time switched linear systems via modified Lyapunov-Metzler inequalities 2012 ,		1
72	LPV H _∞ Control for Flexible Hypersonic Vehicle 2012 , 413-444		2
71	Generalized nonlinear H _∞ synthesis condition with its numerically efficient solution. <i>International Journal of Robust and Nonlinear Control</i> , 2011 , 21, 2079-2100	3.6	9
70	Adaptive control design for uncertain polynomial nonlinear systems with parametric uncertainties. <i>International Journal of Adaptive Control and Signal Processing</i> , 2011 , 25, 502-518	2.8	4
69	Output Feedback Control for Continuous-Time Switched Linear Systems Subject to Actuator Saturation 2011 ,		1
68	Multiobjective fault detection and isolation for flexible air-breathing hypersonic vehicle. <i>Journal of Systems Engineering and Electronics</i> , 2011 , 22, 52-62	1.3	11
67	H-Infinity LPV State Feedback Control for Flexible Hypersonic Vehicle Longitudinal Dynamics 2010 ,		5
66	Robust parameter-dependent fault-tolerant control for actuator and sensor faults. <i>International Journal of Control</i> , 2010 , 83, 1475-1484	1.5	14
65	Robust fault detection and isolation for parameter-dependent LFT systems. <i>International Journal of Robust and Nonlinear Control</i> , 2010 , 20, 764-776	3.6	11

64	Switching-based fault-tolerant control for an F-16 aircraft with thrust vectoring 2009 ,		7
63	Nonlinear H _∞ Control Designs with Axisymmetric Spacecraft Control. <i>Journal of Guidance, Control, and Dynamics</i> , 2009 , 32, 850-859	2.1	39
62	Online Switching Control of LFT Parameter-Dependent Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2009 , 131,	1.6	4
61	Disturbance attenuation by output feedback for linear systems subject to actuator saturation. <i>International Journal of Robust and Nonlinear Control</i> , 2009 , 19, 168-184	3.6	18
60	Regional stabilisation of polynomial non-linear systems using rational Lyapunov functions. <i>International Journal of Control</i> , 2009 , 82, 1605-1615	1.5	25
59	A robust fault tolerant control approach for LTI systems with actuator and sensor faults 2009 ,		2
58	Systematic Gain-Scheduling Control Design: A Missile Autopilot Example. <i>Asian Journal of Control</i> , 2008 , 4, 341-347	1.7	33
57	Computationally Efficient Algorithm For Frequency-Weighted Optimal H _∞ Model Reduction. <i>Asian Journal of Control</i> , 2008 , 5, 341-349	1.7	11
56	Nonlinear output feedback H _∞ control for polynomial nonlinear systems 2008 ,		2
55	Almost output regulation for parameter-dependent linear fractional transformation systems. <i>IET Control Theory and Applications</i> , 2008 , 2, 200-209	2.5	10
54	A Multiobjective Solution Approach to Fault Detection and Isolation of LPV Systems 2008 ,		1
53	Output feedback control of saturated discrete-time linear systems using parameter-dependent Lyapunov functions. <i>Systems and Control Letters</i> , 2008 , 57, 896-903	2.4	52
52	Output Feedback Stabilization of Linear Systems With Actuator Saturation. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 122-128	5.9	67
51	State Feedback and Output Feedback Control of Polynomial Nonlinear Systems Using Fractional Lyapunov Functions 2007 , 897		
50	Improving nonlinear control performance with a hybrid control strategy 2007 ,		1
49	Output Feedback RHC for Constrained Linear Systems 2007 , 889		
48	Robust receding horizon control for constrained linear fractional transformation parameter-dependent systems. <i>IET Control Theory and Applications</i> , 2007 , 1, 1423-1430	2.5	0
47	Robust and gain-scheduling control of LFT systems through duality and conjugate Lyapunov functions. <i>International Journal of Control</i> , 2007 , 80, 555-568	1.5	12

46	Online Switching Control Designs of LFT Systems 2006 ,		2
45	Gain-scheduled control of LFT systems through duality and conjugate Lyapunov functions 2006 ,		1
44	Switching LPV control of an F-16 aircraft via controller state reset. <i>IEEE Transactions on Control Systems Technology</i> , 2006 , 14, 267-277	4.8	200
43	Probabilistic Robust Linear Parameter-Varying Control of an F-16 Aircraft. <i>Journal of Guidance, Control, and Dynamics</i> , 2006 , 29, 1454-1460	2.1	15
42	Gain-scheduling control of LFT systems using parameter-dependent Lyapunov functions. <i>Automatica</i> , 2006 , 42, 39-50	5.7	136
41	Distributed Parameter-Dependent Modeling and Control of Flexible Structures. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2005 , 127, 230-239	1.6	9
40	SOS-based solution approach to polynomial LPV system analysis and synthesis problems. <i>International Journal of Control</i> , 2005 , 78, 600-611	1.5	41
39	Probabilistic Robust Control Design for an F-16 Aircraft 2005 ,		3
38	Post-Stall Aerodynamic Modeling and Gain-Scheduled Control Design 2005 ,		1
37	Output Feedback Control of Saturated Linear Systems Using Parameter-Dependent Lyapunov Functions 2005 , 49		
36	Linear Parameter-Varying Antiwindup Compensation for Enhanced Flight Control Performance. <i>Journal of Guidance, Control, and Dynamics</i> , 2005 , 28, 494-505	2.1	32
35	Extended anti-windup control schemes for LTI and LFT systems with actuator saturations. <i>International Journal of Robust and Nonlinear Control</i> , 2004 , 14, 1255-1281	3.6	49
34	Anti-windup control design for exponentially unstable LTI systems with actuator saturation. <i>Systems and Control Letters</i> , 2004 , 52, 305-322	2.4	93
33	On convexified robust control synthesis. <i>Automatica</i> , 2004 , 40, 1003-1010	5.7	12
32	Switching LPV control designs using multiple parameter-dependent Lyapunov functions. <i>Automatica</i> , 2004 , 40, 1973-1980	5.7	185
31	Switching LPV Control for a High Performance Tactical Aircraft 2004 ,		5
30	Distributed control for interconnected linear parameter-dependent systems. <i>IET Control Theory and Applications</i> , 2003 , 150, 518-527		50
29	Hand L2 - to - L ₂ gain control of linear parameter-varying systems with parameter-varying delays. <i>IET Control Theory and Applications</i> , 2003 , 150, 509-517		38

28	Robust quadratic performance for time-delayed uncertain linear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2003 , 13, 153-172	3.6	9
27	LPV Antiwindup Compensation for Enhanced Flight Control Performance 2003 ,		3
26	Output-feedback control of LPV sampled-data systems. <i>International Journal of Control</i> , 2002 , 75, 252-264	6.5	33
25	LPV Controller Interpolation for Improved Gain-Scheduling Control Performance 2002 ,		4
24	LPV Systems with parameter-varying time delays: analysis and control. <i>Automatica</i> , 2001 , 37, 221-229	5.7	160
23	LMI-based robust model predictive control and its application to an industrial CSTR problem. <i>Journal of Process Control</i> , 2001 , 11, 649-659	3.9	55
22	A generalized LPV system analysis and control synthesis framework. <i>International Journal of Control</i> , 2001 , 74, 745-759	1.5	153
21	Output-feedback control of LPV sampled-data systems 2000 ,		2
20	Anti-windup controller design using linear parameter-varying control methods. <i>International Journal of Control</i> , 2000 , 73, 1104-1114	1.5	124
19	Anti-windup controller synthesis via linear parameter-varying control design methods 1998 ,		4
18	RobustH2 performance analysis for a high-purity distillation column. <i>Computers and Chemical Engineering</i> , 1997 , 21, S161-S166	4	1
17	Control design for nonlinear process models using linear robust control methods: An FCCU example. <i>Computers and Chemical Engineering</i> , 1997 , 21, S595-S600	4	4
16	Duality and basis functions for robust H2-performance analysis. <i>Automatica</i> , 1997 , 33, 1949-1959	5.7	3
15	Induced L2-norm control for LPV systems with bounded parameter variation rates. <i>International Journal of Robust and Nonlinear Control</i> , 1996 , 6, 983-998	3.6	290
14	Induced L2 norm model reduction of polytopic uncertain linear systems. <i>Automatica</i> , 1996 , 32, 1417-1426	5.7	28
13	Induced L2-norm control for LPV systems with bounded parameter variation rates 1996 , 6, 983		161
12	LMI-based robust model predictive control evaluated on an industrial CSTR model		1
11	Confidence interval networks for bounding model uncertainty: experimental evaluations on an active magnetic bearing system		1

10	Anti-windup control for unstable LTI systems	2
9	Robust and gain-scheduled H_2 synthesis for LFT parameter-dependent systems	1
8	Output feedback stabilization of linear systems with actuator saturation	19
7		1
6	State-feedback control of LPV sampled-data systems	3
5	Induced L_2 -norm control for LPV system with bounded parameter variation rates	2
4	Optimal LQG performance of linear uncertain systems using state-feedback	3
3	LPV control design for pitch-axis missile autopilots	1
2	Adaptive control of full information problem	1
1	Extended LTI anti-windup control with actuator magnitude and rate saturations	1