

Xiang-Peng Xie

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97
papers

2,755
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29
h-index

51
g-index

107
ext. papers

3,632
ext. citations

6.3
avg, IF

6.38
L-index

#	Paper	IF	Citations
97	Control Synthesis of Discrete-Time T-S Fuzzy Systems via a Multi-Instant Homogenous Polynomial Approach. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 630-40	10.2	206
96	Observer-Based Non-PDC Control for Networked T-S Fuzzy Systems With an Event-Triggered Communication. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2279-2287	10.2	174
95	Resilient Event-Triggered Controller Synthesis of Networked Control Systems Under Periodic DoS Jamming Attacks. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 4271-4281	10.2	156
94	Control Synthesis of Discrete-Time T-S Fuzzy Systems Based on a Novel Non-PDC Control Scheme. <i>IEEE Transactions on Fuzzy Systems</i> , 2013 , 21, 147-157	8.3	150
93	Relaxed Real-Time Scheduling Stabilization of Discrete-Time Takagi-Sugeno Fuzzy Systems via An Alterable-Weights-Based Ranking Switching Mechanism. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 3808-3819	8.3	143
92	. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 3820-3834	8.3	127
91	Adaptive Event-Triggered Fuzzy Control for Uncertain Active Suspension Systems. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 4388-4397	10.2	117
90	Observer-Based Event-Triggered Control for Networked Linear Systems Subject to Denial-of-Service Attacks. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 1952-1964	10.2	112
89	Control Synthesis of Discrete-Time T-S Fuzzy Systems: Reducing the Conservatism Whilst Alleviating the Computational Burden. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2480-2491	10.2	100
88	Relaxed Control Design of Discrete-Time Takagi-Sugeno Fuzzy Systems: An Event-Triggered Real-Time Scheduling Approach. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 2251-2262	7.3	98
87	Multi-Instant Observer Design of Discrete-Time Fuzzy Systems: A Ranking-Based Switching Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2017 , 25, 1281-1292	8.3	89
86	Observer Design of Discrete-Time T-S Fuzzy Systems Via Multi-Instant Homogenous Matrix Polynomials. <i>IEEE Transactions on Fuzzy Systems</i> , 2014 , 22, 1714-1719	8.3	82
85	Fault Estimation Observer Design for Discrete-Time Takagi-Sugeno Fuzzy Systems Based on Homogenous Polynomially Parameter-Dependent Lyapunov Functions. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2504-2513	10.2	70
84	. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 2797-2806	8.3	70
83	Hybrid-Driven-Based \mathcal{H}_∞ Control for Networked Cascade Control Systems With Actuator Saturations and Stochastic Cyber Attacks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 2452-2463	7.3	64
82	Observer Design of Discrete-Time Fuzzy Systems Based on an Alterable Weights Method. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 1430-1439	10.2	53
81	Data-Driven Distributed Optimal Consensus Control for Unknown Multiagent Systems With Input-Delay. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 2095-2105	10.2	50

80	Finite-Time H_{∞} Filtering for State-Dependent Uncertain Systems With Event-Triggered Mechanism and Multiple Attacks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 1021-1034	3.9	45
79	Observer-Based State Estimation of Discrete-Time Fuzzy Systems Based on a Joint Switching Mechanism for Adjacent Instants. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3545-3555	10.2	41
78	Security distributed state estimation for nonlinear networked systems against DoS attacks. <i>International Journal of Robust and Nonlinear Control</i> , 2020 , 30, 1156-1180	3.6	40
77	Sliding-Mode Control of Fuzzy Singularly Perturbed Descriptor Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 29, 2349-2360	8.3	38
76	Resilient H_{∞} Filtering for Event-Triggered Networked Systems Under Nonperiodic DoS Jamming Attacks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 1-12	7.3	37
75	Fault Estimation Observer Design of Discrete-Time Nonlinear Systems via a Joint Real-Time Scheduling Law. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 1451-1463	7.3	35
74	Event-Triggered Security Output Feedback Control for Networked Interconnected Systems Subject to Cyber-Attacks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 1-10	7.3	35
73	Observer-Based Fault Estimation for Discrete-Time Nonlinear Systems and Its Application: A Weighted Switching Approach. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2019 , 66, 4377-4387	7.9	34
72	Homogenous polynomially parameter-dependent H_{∞} Filter designs of discrete-time fuzzy systems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011 , 41, 1313-22		33
71	A Hierarchical Event Detection Method Based on Spectral Theory of Multidimensional Matrix for Power System. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 2173-2186	7.3	31
70	Event-triggered static/dynamic feedback control for discrete-time linear systems. <i>Information Sciences</i> , 2020 , 524, 33-45	7.7	30
69	Event-Triggered H_{∞} Filtering for T-S Fuzzy-Model-Based Nonlinear Networked Systems With Multisensors Against DoS Attacks. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	30
68	Secure Adaptive-Event-Triggered Filter Design With Input Constraint and Hybrid Cyber Attack. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 4000-4010	10.2	28
67	Output Feedback Stabilization of Networked Control Systems Under a Stochastic Scheduling Protocol. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 2851-2860	10.2	27
66	Relaxed Fuzzy Observer Design of Discrete-Time Nonlinear Systems via Two Effective Technical Measures. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 2833-2845	8.3	24
65	. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	24
64	Co-Design of Dynamic Event-Triggered Communication Scheme and Resilient Observer-Based Control Under Aperiodic DoS Attacks. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 4591-4601	10.2	21
63	Observer design of discrete-time TS fuzzy systems via multi-instant augmented multi-indexed matrix approach. <i>Journal of the Franklin Institute</i> , 2015 , 352, 2899-2919	4	20

62	Fuzzy Adaptive Event-Triggered Control for a Class of Uncertain Nonaffine Nonlinear Systems With Full State Constraints. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 29, 904-916	8.3	17
61	Periodic Event-Triggered Synchronization for Discrete-Time Complex Dynamical Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	16
60	Finite-Horizon Optimal Consensus Control for Unknown Multiagent State-Delay Systems. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 402-413	10.2	15
59	An Optimal Three-Dimensional Drone Layout Method for Maximum Signal Coverage and Minimum Interference in Complex Pipeline Networks. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	14
58	Neural Network Adaptive Tracking Control of Uncertain MIMO Nonlinear Systems With Output Constraints and Event-Triggered Inputs. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 695-707	10.3	12
57	Observer-Based Containment Control for a Class of Nonlinear Multiagent Systems With Uncertainties. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 588-600	7.3	12
56	Observer-Based Security Control for Interconnected Semi-Markovian Jump Systems With Unknown Transition Probabilities. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	12
55	Event-Triggered Control of Nonlinear Discrete-Time System With Unknown Dynamics Based on HDP. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	12
54	Resilient model-free adaptive control for cyber-physical systems against jamming attack. <i>Neurocomputing</i> , 2020 , 413, 422-430	5.4	10
53	Adaptive Fuzzy Output-Constrained Control for Nonlinear Stochastic Systems With Input Delay and Unknown Control Coefficients. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 5279-5290	10.2	10
52	Consensus tracking for nonlinear multi-agent systems with unknown disturbance by using model free adaptive iterative learning control. <i>Applied Mathematics and Computation</i> , 2020 , 365, 124701	2.7	10
51	. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	10
50	Insufficient Data Generative Model for Pipeline Network Leak Detection Using Generative Adversarial Networks. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	9
49	Enhanced Switching Stabilization of Discrete-Time Takagi-Sugeno Fuzzy Systems: Reducing the Conservatism and Alleviating the Online Computational Burden. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	8
48	Dissipativity-Preserving Model Reduction for Takagi-Sugeno Fuzzy Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 27, 659-670	8.3	8
47	Enhanced Stabilization of Discrete-Time Takagi-Sugeno Fuzzy Systems Based on a Comprehensive Real-Time Scheduling Model. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 1-12	7.3	8
46	Attack-Resilient Event-Triggered Fuzzy Interval Type-2 Filter Design for Networked Nonlinear Systems Under Sporadic Denial-of-Service Jamming Attacks. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	8
45	Event-Triggered Dissipative Tracking Control of Networked Control Systems With Distributed Communication Delay. <i>IEEE Systems Journal</i> , 2021 , 1-11	4.3	8

44	Observer-based state estimation of discrete-time nonlinear systems via a novel maximum-priority-based fuzzy observer. <i>Signal Processing</i> , 2017 , 137, 63-68	4.4	7
43	Adaptive Fuzzy Tracking Control for a Class of Uncertain Switched Nonlinear Systems With Full-State Constraints and Input Saturations. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	7
42	Event-Triggered Multiagent Optimization for Two-Layered Model of Hybrid Energy System With Price Bidding-Based Demand Response. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 2068-2079	10.2	7
41	Fault estimation and fault-tolerant control for networked systems based on an adaptive memory-based event-triggered mechanism. <i>IEEE Transactions on Network Science and Engineering</i> , 2021 , 1-1	4.9	7
40	Dual-Predictive Control with Adaptive Error Correction Strategy for AC Microgrids. <i>IEEE Transactions on Power Delivery</i> , 2021 , 1-1	4.3	7
39	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 1-12	7.3	6
38	Dynamic Event-Triggered Output Feedback Control for Networked Systems Subject to Multiple Cyber Attacks. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	6
37	Relaxed Multi-Instant Fuzzy State Estimation Design of Discrete-Time Nonlinear Systems and its Application: A Deep Division Approach. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 1775-1785	3.9	5
36	Adaptive Event-Triggered Synchronization of Reaction-Diffusion Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 3723-3735	10.3	5
35	Reducing the Conservatism of Stabilization for Discrete-Time Takagi-Sugeno Fuzzy Systems via a New Extended Representation Approach. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 4387-4393	7.3	5
34	Attack-Tolerant Switched Fault Detection Filter for Networked Stochastic Systems Under Resilient Event-Triggered Scheme. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-13	7.3	5
33	A new method of fault estimation and tolerant control for fuzzy systems against time-varying delay. <i>Nonlinear Analysis: Hybrid Systems</i> , 2020 , 38, 100942	4.5	4
32	. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 3731-3743	11.9	4
31	Data-Driven-Based Event-Triggered Control for Nonlinear CPSs Against Jamming Attacks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	4
30	Memory-Event-Triggered Fault Detection of Networked IT2 T-S Fuzzy Systems.. <i>IEEE Transactions on Cybernetics</i> , 2022 , PP,	10.2	4
29	Probability-density-dependent load frequency control of power systems with random delays and cyber-attacks via circuital implementation. <i>IEEE Transactions on Smart Grid</i> , 2022 , 1-1	10.7	4
28	Event-Triggered Synchronization of Chaotic Lur β Systems via Memory-based Triggering Approach. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	3
27	Discrete-Time Periodic Event-Triggered Distributed Set-Membership Estimation Over Sensor Networks. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2021 , 1-1	2.8	2

26	Real-Time Leak Location of Long-Distance Pipeline Using Adaptive Dynamic Programming.. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	2
25	Robust fault estimation of discrete-time nonlinear plants via a comprehensive partition-based switching scheme. <i>International Journal of Robust and Nonlinear Control</i> , 2020 , 30, 6518-6534	3.6	2
24	Optimal Leader-Follower Consensus for Constrained-Input Multiagent Systems With Completely Unknown Dynamics. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 1-10	7.3	2
23	Enhanced multi-instant fuzzy switching control of nonlinear system with unreliable communication channels. <i>Applied Soft Computing Journal</i> , 2020 , 96, 106635	7.5	2
22	Adaptive Asymptotic Tracking Control of Uncertain Nonlinear Systems Based on Taylor Decoupling and Event-Trigger. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-8	7.3	2
21	Fuzzy Functional Observer-based Finite-Time Adaptive Sliding Mode Control for Nonlinear Systems with Matched Uncertainties. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	2
20	Relaxed Conditions of Observer Design of Discrete-Time Takagi-Sugeno Fuzzy Systems via A New Multi-Instant Gain-Scheduling Scheme. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	2
19	Static and Dynamic Event-Triggered Mechanisms for Distributed Secondary Control of Inverters in Low-Voltage Islanded Microgrids. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	2
18	Robust fault estimation of discrete-time nonlinear system based on an enhanced maximum-priority-based switching law. <i>Journal of the Franklin Institute</i> , 2020 , 357, 5073-5090	4	1
17	Observer-Based Multi-Instant Fuzzy State Estimation of Discrete-Time Nonlinear Circuits via A New Slack Variables Technique. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	1
16	Multi-Instant Observer Design of Discrete-Time Fuzzy Systems via An Enhanced Gain-Scheduling Mechanism.. <i>IEEE Transactions on Cybernetics</i> , 2022 , PP,	10.2	1
15	Relaxed state estimation of discrete-time nonlinear control systems via an improved fuzzy partition-based switching observer. <i>Journal of the Franklin Institute</i> , 2020 , 357, 6280-6293	4	1
14	Event-Triggered Impulsive Fault-Tolerant Control for Memristor-Based RDNNS With Actuator Faults. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	10.3	1
13	Multi-Instant Gain-Scheduling Stabilization of Discrete-Time Takagi-Sugeno Fuzzy Systems Based on A Time-Variant Balanced Matrix Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	1
12	The Decoupled Active/Reactive Power Predictive Control of Quasi-Z-source Inverter for Distributed Generations. <i>International Journal of Control, Automation and Systems</i> , 2021 , 19, 810-822	2.9	1
11	Event-Triggered Synchronization for Discrete-Time Neural Networks With Unknown Delays. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 3296-3300	3.5	1
10	Novel Adaptive Event-Triggered Fuzzy Command Filter Control for Slowly Switched Nonlinear Systems With Constraints. <i>IEEE Transactions on Cybernetics</i> , 2022 , 1-12	10.2	1
9	Finite-time adaptive event-triggered asynchronous state estimation for Markov jump systems with cyber-attacks. <i>International Journal of Robust and Nonlinear Control</i> , 2022 , 32, 583	3.6	0

8	Gain-Scheduling Fault Estimation for Discrete-Time Takagi-Sugeno Fuzzy Systems: A Depth Partitioning Approach. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 1-11	3.9	0
7	Multi-Instant Gain-Scheduling Fuzzy Observer of Discrete-Time Takagi-Sugeno Systems and Its Application: An Efficient Balanced Matrix Approach. <i>IEEE Transactions on Cybernetics</i> , 2022 , 1-10	10.2	0
6	Intelligent Control of Performance Constrained Switched Nonlinear Systems With Random Noises and Its Application: An Event-Driven Approach. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022 , 1-12	3.9	0
5	Relaxed Fault Estimation of Discrete-Time Nonlinear System Based on a New Multi-Instant Real-Time Scheduling Fuzzy Observer. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-11	7.3	
4	Optimal linear-quadratic-Gaussian control for discrete-time linear systems with white and time-correlated measurement Noises. <i>Optimal Control Applications and Methods</i> , 2021 , 42, 1467-1486	1.7	
3	Enhanced Observer-Based State Estimation of Discrete-Time Takagi-Sugeno Fuzzy Systems via A Distinctive Multi-Instant Gain-Scheduling Law. <i>Journal of the Franklin Institute</i> , 2021 , 358, 9288-9288	4	
2	Fault-tolerant Bipartite Output Regulation of Linear Multi-agent Systems with Loss-of-effectiveness Actuator Faults. <i>International Journal of Control, Automation and Systems</i> , 2022 , 20, 1473	2.9	
1	Distributed Resilient Self-Triggered Cooperative Control for Multiple Photovoltaic Generators Under Denial-of-Service Attack. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022 , 1-12	7.3	