

# Xiang-Peng Xie

## List of Publications by Year in descending order

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107  
papers

4,857  
citations

87723

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107  
docs citations

107  
times ranked

2446  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resilient Event-Triggered Controller Synthesis of Networked Control Systems Under Periodic DoS Jamming Attacks. IEEE Transactions on Cybernetics, 2019, 49, 4271-4281.	6.2	294
2	Observer-Based Non-PDC Control for Networked Takagi-Sugeno Fuzzy Systems With an Event-Triggered Communication. IEEE Transactions on Cybernetics, 2017, 47, 2279-2287.	6.2	259
3	Control Synthesis of Discrete-Time Takagi-Sugeno Fuzzy Systems via a Multi-Instant Homogenous Polynomial Approach. IEEE Transactions on Cybernetics, 2016, 46, 630-640.	6.2	237
4	Observer-Based Event-Triggered Control for Networked Linear Systems Subject to Denial-of-Service Attacks. IEEE Transactions on Cybernetics, 2020, 50, 1952-1964.	6.2	231
5	Adaptive Event-Triggered Fuzzy Control for Uncertain Active Suspension Systems. IEEE Transactions on Cybernetics, 2019, 49, 4388-4397.	6.2	185
6	Relaxed Control Design of Discrete-Time Takagi-Sugeno Fuzzy Systems: An Event-Triggered Real-Time Scheduling Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 2251-2262.	5.9	175
7	Quantized Stabilization for Takagi-Sugeno Fuzzy Systems With Hybrid-Triggered Mechanism and Stochastic Cyber-Attacks. IEEE Transactions on Fuzzy Systems, 2018, 26, 3820-3834.	6.5	173
8	Control Synthesis of Discrete-Time Takagi-Sugeno Fuzzy Systems Based on a Novel Non-PDC Control Scheme. IEEE Transactions on Fuzzy Systems, 2013, 21, 147-157.	6.5	172
9	Relaxed Real-Time Scheduling Stabilization of Discrete-Time Takagi-Sugeno Fuzzy Systems via An Alterable-Weights-Based Ranking Switching Mechanism. IEEE Transactions on Fuzzy Systems, 2018, 26, 3808-3819.	6.5	171
10	Control Synthesis of Discrete-Time Takagi-Sugeno Fuzzy Systems: Reducing the Conservatism Whilst Alleviating the Computational Burden. IEEE Transactions on Cybernetics, 2017, 47, 2480-2491.	6.2	111
11	Multi-Instant Observer Design of Discrete-Time Fuzzy Systems: A Ranking-Based Switching Approach. IEEE Transactions on Fuzzy Systems, 2017, 25, 1281-1292.	6.5	103
12	Hybrid-Driven-Based $H_\infty$ Control for Networked Cascade Control Systems With Actuator Saturations and Stochastic Cyber Attacks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2452-2463.	5.9	103
13	Event-Triggered Predictive Control for Networked Nonlinear Systems With Imperfect Premise Matching. IEEE Transactions on Fuzzy Systems, 2018, 26, 2797-2806.	6.5	95
14	Observer Design of Discrete-Time Takagi-Sugeno Fuzzy Systems Via Multi-Instant Homogenous Matrix Polynomials. IEEE Transactions on Fuzzy Systems, 2014, 22, 1714-1719.	6.5	91
15	Event-Triggered $H_\infty$ Filtering for Takagi-Sugeno Fuzzy-Model-Based Nonlinear Networked Systems With Multisensors Against DoS Attacks. IEEE Transactions on Cybernetics, 2022, 52, 5311-5321.	6.2	91
16	Secure Adaptive-Event-Triggered Filter Design With Input Constraint and Hybrid Cyber Attack. IEEE Transactions on Cybernetics, 2021, 51, 4000-4010.	6.2	90
17	Fault Estimation Observer Design for Discrete-Time Takagi-Sugeno Fuzzy Systems Based on Homogenous Polynomially Parameter-Dependent Lyapunov Functions. IEEE Transactions on Cybernetics, 2017, 47, 2504-2513.	6.2	88
18	Co-Design of Dynamic Event-Triggered Communication Scheme and Resilient Observer-Based Control Under Aperiodic DoS Attacks. IEEE Transactions on Cybernetics, 2021, 51, 4591-4601.	6.2	84

#	ARTICLE	IF	CITATIONS
19	Observer Design of Discrete-Time Fuzzy Systems Based on an Alterable Weights Method. IEEE Transactions on Cybernetics, 2020, 50, 1430-1439.	6.2	77
20	Finite-Time $H_{\infty}$ Filtering for State-Dependent Uncertain Systems With Event-Triggered Mechanism and Multiple Attacks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1021-1034.	3.5	74
21	Data-Driven Distributed Optimal Consensus Control for Unknown Multiagent Systems With Input-Delay. IEEE Transactions on Cybernetics, 2019, 49, 2095-2105.	6.2	72
22	Memory-Based Continuous Event-Triggered Control for Networked Tâ€“S Fuzzy Systems Against Cyberattacks. IEEE Transactions on Fuzzy Systems, 2021, 29, 3118-3129.	6.5	71
23	Security distributed state estimation for nonlinear networked systems against DoS attacks. International Journal of Robust and Nonlinear Control, 2020, 30, 1156-1180.	2.1	69
24	Event-Triggered Security Output Feedback Control for Networked Interconnected Systems Subject to Cyber-Attacks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6197-6206.	5.9	68
25	Sliding-Mode Control of Fuzzy Singularly Perturbed Descriptor Systems. IEEE Transactions on Fuzzy Systems, 2021, 29, 2349-2360.	6.5	65
26	Observer-Based State Estimation of Discrete-Time Fuzzy Systems Based on a Joint Switching Mechanism for Adjacent Instants. IEEE Transactions on Cybernetics, 2020, 50, 3545-3555.	6.2	61
27	Resilient Hâ€ž Filtering for Event-Triggered Networked Systems Under Nonperiodic DoS Jamming Attacks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, , 1-12.	5.9	57
28	A Hierarchical Event Detection Method Based on Spectral Theory of Multidimensional Matrix for Power System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2173-2186.	5.9	56
29	Dynamic Event-Triggered Output Feedback Control for Networked Systems Subject to Multiple Cyber Attacks. IEEE Transactions on Cybernetics, 2022, 52, 13800-13808.	6.2	56
30	Event-triggered static/dynamic feedback control for discrete-time linear systems. Information Sciences, 2020, 524, 33-45.	4.0	51
31	Output Feedback Stabilization of Networked Control Systems Under a Stochastic Scheduling Protocol. IEEE Transactions on Cybernetics, 2020, 50, 2851-2860.	6.2	49
32	Neural Network Adaptive Tracking Control of Uncertain MIMO Nonlinear Systems With Output Constraints and Event-Triggered Inputs. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 695-707.	7.2	49
33	Fuzzy Adaptive Event-Triggered Control for a Class of Uncertain Nonaffine Nonlinear Systems With Full State Constraints. IEEE Transactions on Fuzzy Systems, 2021, 29, 904-916.	6.5	47
34	Periodic Event-Triggered Synchronization for Discrete-Time Complex Dynamical Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3622-3633.	7.2	47
35	Event-Triggered Control of Nonlinear Discrete-Time System With Unknown Dynamics Based on HDP( <i>l</i> , <i>i</i> ). IEEE Transactions on Cybernetics, 2022, 52, 6046-6058.	6.2	44
36	Fault Estimation Observer Design of Discrete-Time Nonlinear Systems via a Joint Real-Time Scheduling Law. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1451-1463.	5.9	43

#	ARTICLE	IF	CITATIONS
37	Observer-Based Fault Estimation for Discrete-Time Nonlinear Systems and Its Application: A Weighted Switching Approach. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4377-4387.	3.5	42
38	Homogenous Polynomially Parameter-Dependent $H_{\infty}$ Filter Designs of Discrete-Time Fuzzy Systems. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1313-1322.	5.5	41
39	Resilient model-free adaptive control for cyber-physical systems against jamming attack. Neurocomputing, 2020, 413, 422-430.	3.5	41
40	Consensus tracking for nonlinear multi-agent systems with unknown disturbance by using model free adaptive iterative learning control. Applied Mathematics and Computation, 2020, 365, 124701.	1.4	37
41	Attack-Resilient Event-Triggered Fuzzy Interval Type-2 Filter Design for Networked Nonlinear Systems Under Sporadic Denial-of-Service Jamming Attacks. IEEE Transactions on Fuzzy Systems, 2022, 30, 190-204.	6.5	37
42	Event-Based Secure Control of $T^S$ Fuzzy-Based 5-DOF Active Semivehicle Suspension Systems Subject to DoS Attacks. IEEE Transactions on Fuzzy Systems, 2022, 30, 2032-2043.	6.5	35
43	Relaxed Fuzzy Observer Design of Discrete-Time Nonlinear Systems via Two Effective Technical Measures. IEEE Transactions on Fuzzy Systems, 2018, 26, 2833-2845.	6.5	33
44	Observer-Based Containment Control for a Class of Nonlinear Multiagent Systems With Uncertainties. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 588-600.	5.9	33
45	Adaptive Fuzzy Output-Constrained Control for Nonlinear Stochastic Systems With Input Delay and Unknown Control Coefficients. IEEE Transactions on Cybernetics, 2021, 51, 5279-5290.	6.2	32
46	Memory-Event-Triggered Fault Detection of Networked IT2 $T^S$ Fuzzy Systems. IEEE Transactions on Cybernetics, 2023, 53, 743-752.	6.2	31
47	Fault Estimation and Fault-Tolerant Control for Networked Systems Based on an Adaptive Memory-Based Event-Triggered Mechanism. IEEE Transactions on Network Science and Engineering, 2021, 8, 3233-3241.	4.1	30
48	Adaptive Fuzzy Tracking Control for a Class of Uncertain Switched Nonlinear Systems With Full-State Constraints and Input Saturations. IEEE Transactions on Cybernetics, 2021, 51, 6054-6065.	6.2	29
49	Event-Triggered Multiagent Optimization for Two-Layered Model of Hybrid Energy System With Price Bidding-Based Demand Response. IEEE Transactions on Cybernetics, 2021, 51, 2068-2079.	6.2	29
50	Observer-Based Security Control for Interconnected Semi-Markovian Jump Systems With Unknown Transition Probabilities. IEEE Transactions on Cybernetics, 2022, 52, 9013-9025.	6.2	29
51	Insufficient Data Generative Model for Pipeline Network Leak Detection Using Generative Adversarial Networks. IEEE Transactions on Cybernetics, 2022, 52, 7107-7120.	6.2	29
52	Event-Triggered Dissipative Tracking Control of Networked Control Systems With Distributed Communication Delay. IEEE Systems Journal, 2022, 16, 3320-3330.	2.9	29
53	Decentralized event-triggered synchronization control for complex networks with nonperiodic DoS attacks. International Journal of Robust and Nonlinear Control, 2022, 32, 1633-1653.	2.1	28
54	Data-Driven-Based Event-Triggered Control for Nonlinear CPSs Against Jamming Attacks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3171-3177.	7.2	27

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55	Finite-Horizon Optimal Consensus Control for Unknown Multiagent State-Delay Systems. IEEE Transactions on Cybernetics, 2020, 50, 402-413.	6.2	26
56	Adaptive Event-Triggered Synchronization of Reaction-Diffusion Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3723-3735.	7.2	26
57	Observer design of discrete-time T-S fuzzy systems via multi-instant augmented multi-indexed matrix approach. Journal of the Franklin Institute, 2015, 352, 2899-2919.	1.9	24
58	Attack-Tolerant Switched Fault Detection Filter for Networked Stochastic Systems Under Resilient Event-Triggered Scheme. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1984-1996.	5.9	21
59	Optimal Leader-Follower Consensus for Constrained-Input Multiagent Systems With Completely Unknown Dynamics. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1182-1191.	5.9	20
60	An Optimal Three-Dimensional Drone Layout Method for Maximum Signal Coverage and Minimum Interference in Complex Pipeline Networks. IEEE Transactions on Cybernetics, 2022, 52, 5897-5907.	6.2	19
61	Enhanced Stabilization of Discrete-Time Takagi-Sugeno Fuzzy Systems Based on a Comprehensive Real-Time Scheduling Model. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 881-892.	5.9	18
62	Enhanced Switching Stabilization of Discrete-Time Takagi-Sugeno Fuzzy Systems: Reducing the Conservatism and Alleviating the Online Computational Burden. IEEE Transactions on Fuzzy Systems, 2021, 29, 2419-2424.	6.5	18
63	Dual-Predictive Control With Adaptive Error Correction Strategy for AC Microgrids. IEEE Transactions on Power Delivery, 2022, 37, 1930-1940.	2.9	18
64	Dissipativity-Preserving Model Reduction for Takagi-Sugeno Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2019, 27, 659-670.	6.5	14
65	Consensus of Multiagent Systems With Time-Varying Input Delay via Truncated Predictor Feedback. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6062-6073.	5.9	14
66	Fuzzy Functional Observer-Based Finite-Time Adaptive Sliding-Mode Control for Nonlinear Systems With Matched Uncertainties. IEEE Transactions on Fuzzy Systems, 2022, 30, 918-932.	6.5	14
67	Event-Triggered Synchronization of Chaotic Lur <sup>TM</sup> e Systems via Memory-Based Triggering Approach. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1427-1431.	2.2	13
68	Adaptive Asymptotic Tracking Control of Uncertain Nonlinear Systems Based on Taylor Decoupling and Event-Trigger. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2053-2060.	5.9	12
69	Probability-Density-Dependent Load Frequency Control of Power Systems With Random Delays and Cyber-Attacks via Circuital Implementation. IEEE Transactions on Smart Grid, 2022, 13, 4837-4847.	6.2	12
70	Reducing the Conservatism of Stabilization for Discrete-Time Takagi-Sugeno Fuzzy Systems via a New Extended Representation Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4387-4393.	5.9	11
71	A new method of fault estimation and tolerant control for fuzzy systems against time-varying delay. Nonlinear Analysis: Hybrid Systems, 2020, 38, 100942.	2.1	10
72	Resilient Model Free Adaptive Distributed LFC for Multi-Area Power Systems Against Jamming Attacks. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 4120-4129.	7.2	10

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73	Novel Adaptive Event-Triggered Fuzzy Command Filter Control for Slowly Switched Nonlinear Systems With Constraints. IEEE Transactions on Cybernetics, 2023, 53, 5755-5766.	6.2	10
74	Two-Stage Optimal Operation Strategy of Isolated Microgrid With TSK Fuzzy Identification of Supply Security. IEEE Transactions on Industrial Informatics, 2020, 16, 3731-3743.	7.2	9
75	Event-Triggered Synchronization for Discrete-Time Neural Networks With Unknown Delays. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3296-3300.	2.2	9
76	Discrete-Time Periodic Event-Triggered Distributed Set-Membership Estimation Over Sensor Networks. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 767-776.	1.6	9
77	Observer-based state estimation of discrete-time nonlinear systems via a novel maximum-priority-based fuzzy observer. Signal Processing, 2017, 137, 63-68.	2.1	8
78	Multi-Instant Gain-Scheduling Stabilization of Discrete-Time Takagi-Sugeno Fuzzy Systems Based on a Time-Variant Balanced Matrix Approach. IEEE Transactions on Fuzzy Systems, 2022, 30, 2777-2782.	6.5	8
79	Static and Dynamic Event-Triggered Mechanisms for Distributed Secondary Control of Inverters in Low-Voltage Islanded Microgrids. IEEE Transactions on Cybernetics, 2022, 52, 6925-6938.	6.2	7
80	The Decoupled Active/Reactive Power Predictive Control of Quasi-Z-source Inverter for Distributed Generations. International Journal of Control, Automation and Systems, 2021, 19, 810-822.	1.6	7
81	Finite-time fault detection for multiple delayed semi-Markovian jump random systems. International Journal of Robust and Nonlinear Control, 2021, 31, 9562-9587.	2.1	7
82	Finite-time adaptive event-triggered asynchronous state estimation for Markov jump systems with cyberattacks. International Journal of Robust and Nonlinear Control, 2022, 32, 583-599.	2.1	7
83	Relaxed Multi-Instant Fuzzy State Estimation Design of Discrete-Time Nonlinear Systems and its Application: A Deep Division Approach. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1775-1785.	3.5	6
84	Real-Time Leak Location of Long-Distance Pipeline Using Adaptive Dynamic Programming. IEEE Transactions on Neural Networks and Learning Systems, 2021, PP, 1-10.	7.2	6
85	Enhanced multi-instant fuzzy switching control of nonlinear system with unreliable communication channels. Applied Soft Computing Journal, 2020, 96, 106635.	4.1	5
86	Relaxed Conditions of Observer Design of Discrete-Time Takagi-Sugeno Fuzzy Systems via a New Multi-Instant Gain-Scheduling Scheme. IEEE Transactions on Fuzzy Systems, 2022, 30, 2759-2768.	6.5	5
87	Multi-Instant Gain-Scheduling Fuzzy Observer of Discrete-Time Takagi-Sugeno Systems and Its Application: An Efficient Balanced Matrix Approach. IEEE Transactions on Cybernetics, 2023, 53, 5767-5776.	6.2	5
88	Intelligent Control of Performance Constrained Switched Nonlinear Systems With Random Noises and Its Application: An Event-Driven Approach. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 3736-3747.	3.5	5
89	Stochastic Data-Based Denial-of-Service Attack Strategy Design Against Remote State Estimation in Interval Type-2 T-S Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2023, 31, 825-834.	6.5	5
90	Robust fault estimation of discrete-time nonlinear plants via a comprehensive partition-based switching scheme. International Journal of Robust and Nonlinear Control, 2020, 30, 6518-6534.	2.1	4



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91	Event-Triggered Impulsive Fault-Tolerant Control for Memristor-Based RDNNs With Actuator Faults. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2993-3004.	7.2	4
92	Relaxed Fault Estimation of Discrete-Time Nonlinear System Based on a New Multi-Instant Real-Time Scheduling Fuzzy Observer. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5556-5566.	5.9	4
93	Gain-Scheduling Fault Estimation for Discrete-Time Takagi-Sugeno Fuzzy Systems: A Depth Partitioning Approach. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1693-1703.	3.5	4
94	Relaxed state estimation of discrete-time nonlinear control systems via an improved fuzzy partition-based switching observer. Journal of the Franklin Institute, 2020, 357, 6280-6293.	1.9	3
95	Periodic Event-Triggered Dynamic Feedback Synchronization Control of Discrete-Time Neural Networks. IEEE Transactions on Cybernetics, 2023, 53, 5380-5386.	6.2	3
96	Multi-Instant Observer Design of Discrete-Time Fuzzy Systems via An Enhanced Gain-Scheduling Mechanism. IEEE Transactions on Cybernetics, 2023, 53, 2876-2885.	6.2	3
97	Event-based secure leader-following consensus for cyber-physical systems under denial-of-service attacks. International Journal of Robust and Nonlinear Control, 0, , .	2.1	3
98	Robust fault estimation of discrete-time nonlinear system based on an enhanced maximum-priority-based switching law. Journal of the Franklin Institute, 2020, 357, 5073-5090.	1.9	2
99	Fault-tolerant Bipartite Output Regulation of Linear Multi-agent Systems with Loss-of-effectiveness Actuator Faults. International Journal of Control, Automation and Systems, 2022, 20, 1473-1483.	1.6	2
100	Further studies on state estimation of discrete-time nonlinear parameter varying systems based on a new multiinstant switching observer. International Journal of Robust and Nonlinear Control, 2020, , .	2.1	1
101	Enhanced fuzzy state estimation of discrete-time nonlinear systems via a multiinstant united switch-type observer. Optimal Control Applications and Methods, 2023, 44, 1556-1569.	1.3	1
102	Observer-Based Multi-Instant Fuzzy State Estimation of Discrete-Time Nonlinear Circuits via a New Slack Variables Technique. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2191-2195.	2.2	1
103	Critic-only online adaptive learning based decentralized control schemes for nonlinear large-scale systems. Optimal Control Applications and Methods, 0, , .	1.3	1
104	Distributed Resilient Self-Triggered Cooperative Control for Multiple Photovoltaic Generators Under Denial-of-Service Attack. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 226-237.	5.9	1
105	Enhanced gain-scheduling fault estimation of discrete-time Takagi-Sugeno nonlinear systems: A novel free matrix approach. International Journal of Robust and Nonlinear Control, 0, , .	2.1	1
106	Optimal linear-quadratic-Gaussian control for discrete-time linear systems with white and time-correlated measurement Noises. Optimal Control Applications and Methods, 2021, 42, 1467-1486.	1.3	0
107	Enhanced Observer-Based State Estimation of Discrete-Time Takagi-Sugeno Fuzzy Systems via A Distinctive Multi-Instant Gain-Scheduling Law. Journal of the Franklin Institute, 2021, 358, 9288-9288.	1.9	0