Hak-Keung Lam

List of Publications by Year
in descending order

422 papers	16,000 citations	13827 67 h-index	23472 111 g-index
428 all docs	428 docs citations	428 times ranked	6666 citing authors

#	Article	IF	Citations
1	Tuning of the structure and parameters of a neural network using an improved genetic algorithm. IEEE Transactions on Neural Networks, 2003, 14, 79-88.	4.8	639
2	Finite-Time Event-Triggered $\mathcal{H}_{\infty}$ Control for T–S Fuzzy Markov Jump Systems. IEEE Transactions on Fuzzy Systems, 2018, 26, 3122-3135.	6.5	401
3	Stability Analysis of Interval Type-2 Fuzzy-Model-Based Control Systems. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 617-628.	5.5	384
4	Observer-Based Fault Detection for Nonlinear Systems With Sensor Fault and Limited Communication Capacity. IEEE Transactions on Automatic Control, 2016, 61, 2745-2751.	3.6	335
5	Fuzzy Sampled-Data Control for Uncertain Vehicle Suspension Systems. IEEE Transactions on Cybernetics, 2014, 44, 1111-1126.	6.2	314
6	Control Design for Interval Type-2 Fuzzy Systems Under Imperfect Premise Matching. IEEE Transactions on Industrial Electronics, 2014, 61, 956-968.	5.2	301
7	Event-Triggered Fault Detection of Nonlinear Networked Systems. IEEE Transactions on Cybernetics, 2017, 47, 1041-1052.	6.2	297
8	Adaptive Sliding Mode Control for Interval Type-2 Fuzzy Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1654-1663.	5.9	267
9	Observer-Based Fuzzy Control for Nonlinear Networked Systems Under Unmeasurable Premise Variables. IEEE Transactions on Fuzzy Systems, 2016, 24, 1233-1245.	6.5	246
10	Fault Detection for T-S Fuzzy Time-Delay Systems: Delta Operator and Input-Output Methods. IEEE Transactions on Cybernetics, 2015, 45, 229-241.	6.2	225
11	Security-Based Fuzzy Control for Nonlinear Networked Control Systems With DoS Attacks via a Resilient Event-Triggered Scheme. IEEE Transactions on Fuzzy Systems, 2022, 30, 4359-4368.	6.5	220
12	Hybrid Particle Swarm Optimization With Wavelet Mutation and Its Industrial Applications. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 743-763.	5.5	218
13	Stability Analysis and Performance Design for Fuzzy-Model-Based Control System Under Imperfect Premise Matching. IEEE Transactions on Fuzzy Systems, 2009, 17, 949-961.	6.5	214
14	Filtering of Interval Type-2 Fuzzy Systems With Intermittent Measurements. IEEE Transactions on Cybernetics, 2016, 46, 668-678.	6.2	214
15	A review on stability analysis of continuous-time fuzzy-model-based control systems: From membership-function-independent to membership-function-dependent analysis. Engineering Applications of Artificial Intelligence, 2018, 67, 390-408.	4.3	206
16	Model reduction for interval type-2 Takagi–Sugeno fuzzy systems. Automatica, 2015, 61, 308-314.	3.0	197
17	Singularity-Free Fixed-Time Fuzzy Control for Robotic Systems With User-Defined Performance. IEEE Transactions on Fuzzy Systems, 2021, 29, 2388-2398.	6.5	194
18	Optimal Guaranteed Cost Sliding-Mode Control of Interval Type-2 Fuzzy Time-Delay Systems. IEEE Transactions on Fuzzy Systems, 2018, 26, 246-257.	6.5	182

#	Article	IF	Citations
19	Approaches to Tâ€"S Fuzzy-Affine-Model-Based Reliable Output Feedback Control for Nonlinear ItÃ´ Stochastic Systems. IEEE Transactions on Fuzzy Systems, 2017, 25, 569-583.	6.5	177
20	Event-Triggered Mean-Square Consensus Control for Time-Varying Stochastic Multi-Agent System With Sensor Saturations. IEEE Transactions on Automatic Control, 2017, 62, 3524-3531.	3.6	173
21	Polynomial Fuzzy-Model-Based Control Systems: Stability Analysis Via Piecewise-Linear Membership Functions. IEEE Transactions on Fuzzy Systems, 2011, 19, 588-593.	6.5	172
22	A New Approach to Stability and Stabilization Analysis for Continuous-Time Takagiâ€"Sugeno Fuzzy Systems With Time Delay. IEEE Transactions on Fuzzy Systems, 2018, 26, 2460-2465.	6.5	170
23	Quadratic-Stability Analysis of Fuzzy-Model-Based Control Systems Using Staircase Membership Functions. IEEE Transactions on Fuzzy Systems, 2010, 18, 125-137.	6.5	163
24	Dissipativity Analysis and Synthesis for Discrete-Time Tâ€"S Fuzzy Stochastic SystemsWith Time-Varying Delay. IEEE Transactions on Fuzzy Systems, 2014, 22, 380-394.	6.5	158
25	Stability Analysis of Fuzzy Control Systems Subject to Uncertain Grades of Membership. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 1322-1325.	5.5	153
26	Distributed Event-Based Set-Membership Filtering for a Class of Nonlinear Systems With Sensor Saturations Over Sensor Networks. IEEE Transactions on Cybernetics, 2017, 47, 3772-3783.	6.2	150
27	A Novel Mixed Control Approach for Fuzzy Systems via Membership Functions Online Learning Policy. IEEE Transactions on Fuzzy Systems, 2022, 30, 3812-3822.	6.5	149
28	New Stability Criterion for Continuous-Time Takagiâ€"Sugeno Fuzzy Systems With Time-Varying Delay. IEEE Transactions on Cybernetics, 2019, 49, 1551-1556.	6.2	147
29	State and Output Feedback Control of Interval Type-2 Fuzzy Systems With Mismatched Membership Functions. IEEE Transactions on Fuzzy Systems, 2015, 23, 1943-1957.	6.5	141
30	Notice of Violation of IEEE Publication Principles: An Improved Result on Exponential Stabilization of Sampled-Data Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2018, 26, 3875-3883.	6.5	138
31	Fault Detection for Fuzzy Semi-Markov Jump Systems Based on Interval Type-2 Fuzzy Approach. IEEE Transactions on Fuzzy Systems, 2020, 28, 2375-2388.	6.5	136
32	Event-Triggered Control for Nonlinear Systems Under Unreliable Communication Links. IEEE Transactions on Fuzzy Systems, 2017, 25, 813-824.	6.5	133
33	Variance-Constrained Distributed Filtering for Time-Varying Systems With Multiplicative Noises and Deception Attacks Over Sensor Networks. IEEE Sensors Journal, 2017, 17, 2279-2288.	2.4	128
34	LMI-Based Stability Analysis for Fuzzy-Model-Based Control Systems Using Artificial Tâ€"S Fuzzy Model. IEEE Transactions on Fuzzy Systems, 2011, 19, 505-513.	6.5	127
35	SOS-Based Stability Analysis of Polynomial Fuzzy-Model-Based Control Systems Via Polynomial Membership Functions. IEEE Transactions on Fuzzy Systems, 2010, 18, 862-871.	6.5	118
36	Stabilization of Nonlinear Systems Using Sampled-Data Output-Feedback Fuzzy Controller Based on Polynomial-Fuzzy-Model-Based Control Approach. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 258-267.	5.5	115

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37	Stability Analysis of Polynomial-Fuzzy-Model-Based Control Systems With Mismatched Premise Membership Functions. IEEE Transactions on Fuzzy Systems, 2014, 22, 223-229.	6.5	110
38	Improved SFFS method for channel selection in motor imagery based BCI. Neurocomputing, 2016, 207, 519-527.	3.5	110
39	A New Design of H -Infinity Piecewise Filtering for Discrete-Time Nonlinear Time-Varying Delay Systems via T–S Fuzzy Affine Models. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2034-2047.	5.9	110
40	Interval Type-2 Fuzzy Model Predictive Control of Nonlinear Networked Control Systems. IEEE Transactions on Fuzzy Systems, 2015, 23, 2317-2328.	6.5	108
41	Fuzzy Output Tracking Control and Filtering for Nonlinear Discrete-Time Descriptor Systems Under Unreliable Communication Links. IEEE Transactions on Cybernetics, 2020, 50, 2369-2379.	6.2	108
42	Event-Based Adaptive Fixed-Time Fuzzy Control for Active Vehicle Suspension Systems With Time-Varying Displacement Constraint. IEEE Transactions on Fuzzy Systems, 2022, 30, 2813-2821.	6.5	108
43	A novel genetic-algorithm-based neural network for short-term load forecasting. IEEE Transactions on Industrial Electronics, 2003, 50, 793-799.	5.2	102
44	Polynomial Fuzzy-Model-Based Control Systems: Stability Analysis via Approximated Membership Functions Considering Sector Nonlinearity of Control Input. IEEE Transactions on Fuzzy Systems, 2015, 23, 2202-2214.	6.5	97
45	A Novel Approach to Reliable Output Feedback Control of Fuzzy-Affine Systems With Time Delays and Sensor Faults. IEEE Transactions on Fuzzy Systems, 2017, 25, 1808-1823.	6.5	94
46	Stabilization of Interval Type-2 Polynomial-Fuzzy-Model-Based Control Systems. IEEE Transactions on Fuzzy Systems, 2017, 25, 205-217.	6.5	94
47	Nonsingular Finite-Time Event-Triggered Fuzzy Control for Large-Scale Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2021, 29, 2088-2099.	6.5	94
48	Relaxed LMI-Based Stability Conditions for Takagi–Sugeno Fuzzy Control Systems Using Regional-Membership-Function-Shape-Dependent Analysis Approach. IEEE Transactions on Fuzzy Systems, 2009, 17, 1221-1228.	6.5	93
49	Stable and robust fuzzy control for uncertain nonlinear systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2000, 30, 825-840.	3.4	88
50	Event-Triggered Fuzzy Filtering for Nonlinear Dynamic Systems via Reduced-Order Approach. IEEE Transactions on Fuzzy Systems, 2019, 27, 1215-1225.	6.5	87
51	Control design of interval type-2 fuzzy systems with actuator fault: Sampled-data control approach. Information Sciences, 2015, 302, 1-13.	4.0	85
52	Output-Feedback Tracking Control for Polynomial Fuzzy-Model-Based Control Systems. IEEE Transactions on Industrial Electronics, 2013, 60, 5830-5840.	5.2	84
53	Stability Analysis of Polynomial-Fuzzy-Model-Based Control Systems Using Switching Polynomial Lyapunov Function. IEEE Transactions on Fuzzy Systems, 2013, 21, 800-813.	6.5	82
54	Envelope-constrained H_∞ filtering for nonlinear systems with quantization effects: The finite horizon case. Automatica, 2018, 93, 527-534.	3.0	82

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55	Sampled-Data Output-Feedback Tracking Control for Interval Type-2 Polynomial Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2020, 28, 424-433.	6.5	82
56	Fuzzy Sampled-Data Control for Synchronization of Tâ€"S Fuzzy Reactionâ€"Diffusion Neural Networks With Additive Time-Varying Delays. IEEE Transactions on Cybernetics, 2021, 51, 2384-2397.	6.2	81
57	Local Stabilization for Continuous-time Takagiâ€"Sugeno Fuzzy Systems With Time Delay. IEEE Transactions on Fuzzy Systems, 2018, 26, 379-385.	6.5	80
58	Asynchronous sliding mode control of singularly perturbed semi-Markovian jump systems: Application to an operational amplifier circuit. Automatica, 2020, 118, 109026.	3.0	80
59	Spatially Piecewise Fuzzy Control Design for Sampled-Data Exponential Stabilization of Semilinear Parabolic PDE Systems. IEEE Transactions on Fuzzy Systems, 2018, 26, 2967-2980.	6.5	79
60	Classification of COVID-19 chest X-Ray and CT images using a type of dynamic CNN modification method. Computers in Biology and Medicine, 2021, 134, 104425.	3.9	79
61	Short-term electric load forecasting based on a neural fuzzy network. IEEE Transactions on Industrial Electronics, 2003, 50, 1305-1316.	5.2	77
62	Positive filtering for positive Takagiâ€"Sugeno fuzzy systems under <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>â„"</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> performance. Information Sciences, 2015, 299, 32-41.	4.0	77
63	Membership-function-dependent stability analysis of fuzzy-model-based control systems using fuzzy Lyapunov functions. Information Sciences, 2013, 232, 253-266.	4.0	75
64	Adaptive fuzzy control of a magnetorheological elastomer vibration isolation system with time-varying sinusoidal excitations. Journal of Sound and Vibration, 2019, 456, 386-406.	2.1	74
65	Stability and Stabilization of Discrete-Time Tâ€"S Fuzzy Systems With Stochastic Perturbation and Time-Varying Delay. IEEE Transactions on Fuzzy Systems, 2014, 22, 124-138.	6.5	70
66	Tracking control of sampled-data fuzzy-model-based control systems. IET Control Theory and Applications, 2009, 3, 56-67.	1.2	69
67	Fuzzy Remote Tracking Control for Randomly Varying Local Nonlinear Models Under Fading and Missing Measurements. IEEE Transactions on Fuzzy Systems, 2018, 26, 1125-1137.	6.5	69
68	Nonlinear state feedback controller for nonlinear systems: Stability analysis and design based on fuzzy plant model. IEEE Transactions on Fuzzy Systems, 2001, 9, 657-661.	6.5	66
69	Mean-Square H_∞ Consensus Control for a Class of Nonlinear Time-Varying Stochastic Multiagent Systems: The Finite-Horizon Case. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1050-1060.	5.9	64
70	Membership-Function-Dependent Stabilization of Event-Triggered Interval Type-2 Polynomial Fuzzy-Model-Based Networked Control Systems. IEEE Transactions on Fuzzy Systems, 2020, 28, 3171-3180.	6.5	64
71	Nonfragile Control With Guaranteed Cost of Tâ€"S Fuzzy Singular Systems Based on Parallel Distributed Compensation. IEEE Transactions on Fuzzy Systems, 2014, 22, 1183-1196.	6.5	63
72	Fuzzy Adaptive Event-Triggered Sampled-Data Control for Stabilization of Tâ€"S Fuzzy Memristive Neural Networks With Reactionâ€"Diffusion Terms. IEEE Transactions on Fuzzy Systems, 2021, 29, 1775-1785.	6.5	62

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73	Two-Step Stability Analysis for General Polynomial-Fuzzy-Model-Based Control Systems. IEEE Transactions on Fuzzy Systems, 2015, 23, 511-524.	6.5	61
74	Sliding Mode Control of Markovian Jump Fuzzy Systems: A Dynamic Event-Triggered Method. IEEE Transactions on Fuzzy Systems, 2021, 29, 2902-2915.	6.5	61
75	Fuzzy-Model-Based Control for Singularly Perturbed Systems With Nonhomogeneous Markov Switching: A Dropout Compensation Strategy. IEEE Transactions on Fuzzy Systems, 2022, 30, 530-541.	6.5	60
76	A practical fuzzy logic controller for the path tracking of wheeled mobile robots. IEEE Control Systems, 2003, 23, 60-65.	1.0	59
77	Kinematic Control of Continuum Manipulators Using a Fuzzy-Model-Based Approach. IEEE Transactions on Industrial Electronics, 2016, 63, 5022-5035.	5.2	59
78	Cooperative Fault-Tolerant Control for Networks of Stochastic Nonlinear Systems With Nondifferential Saturation Nonlinearity. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1362-1372.	5.9	59
79	Design and stability analysis of fuzzy model-based nonlinear controller for nonlinear systems using genetic algorithm. IEEE Transactions on Systems, Man, and Cybernetics, 2003, 33, 250-257.	5.5	58
80	Hidden-Markov-Model-Based Asynchronous H_{∞} Tracking Control of Fuzzy Markov Jump Systems. IEEE Transactions on Fuzzy Systems, 2021, 29, 1081-1092.	6.5	57
81	Periodic Event-Triggered Terminal Sliding Mode Speed Control for Networked PMSM System: A GA-Optimized Extended State Observer Approach. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4153-4164.	3.7	55
82	Output Regulation of Polynomial-Fuzzy-Model-Based Control Systems. IEEE Transactions on Fuzzy Systems, 2013, 21, 262-274.	6.5	54
83	Stability analysis of Tâ€"S fuzzy control systems using parameter-dependent Lyapunov function. IET Control Theory and Applications, 2009, 3, 750-762.	1.2	52
84	Stability analysis of polynomial fuzzy-model-based control systems under perfect/imperfect premise matching. IET Control Theory and Applications, 2011, 5, 1689-1697.	1.2	52
85	Output-feedback tracking control for interval type-2 polynomial fuzzy-model-based control systems. Neurocomputing, 2017, 242, 83-95.	3.5	52
86	Design and Stabilization of Sampled-Data Neural-Network-Based Control Systems. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 995-1005.	5.5	51
87	Stability analysis of discrete-time fuzzy-model-based control systems with time delay: Time delay-independent approach. Fuzzy Sets and Systems, 2008, 159, 990-1000.	1.6	51
88	Sampled-data fuzzy controller for continuous nonlinear systems. IET Control Theory and Applications, 2008, 2, 32-39.	1.2	51
89	Membership-dependent stability conditions for type-1 and interval type-2 Tâ€"S fuzzy systems. Fuzzy Sets and Systems, 2019, 356, 44-62.	1.6	50
90	MANet: A two-stage deep learning method for classification of COVID-19 from Chest X-ray images. Neurocomputing, 2021, 443, 96-105.	3.5	50

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91	Optimal control of discrete-time interval type-2 fuzzy-model-based systems with $\mathcal{D}$-stability constraint and control saturation. Signal Processing, 2016, 120, 409-421.	2.1	49
92	Synchronization of Chaotic Systems Using Time-Delayed Fuzzy State-Feedback Controller. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 893-903.	3.5	48
93	Design of a Polynomial Fuzzy Observer Controller With Sampled-Output Measurements for Nonlinear Systems Considering Unmeasurable Premise Variables. IEEE Transactions on Fuzzy Systems, 2015, 23, 2067-2079.	6.5	48
94	Adaptive neuro-fuzzy PID controller based on twin delayed deep deterministic policy gradient algorithm. Neurocomputing, 2020, 402, 183-194.	3.5	48
95	Chaotic Synchronization Using Sampled-Data Fuzzy Controller Based on Fuzzy-Model-Based Approach. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 883-892.	3.5	47
96	LMI-Based Stability Analysis of Fuzzy-Model-Based Control Systems Using Approximated Polynomial Membership Functions. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 713-724.	5.5	47
97	Tâ€"S Fuzzy-Model-Based Output Feedback Tracking Control With Control Input Saturation. IEEE Transactions on Fuzzy Systems, 2018, 26, 3514-3523.	6.5	47
98	Stability and Stabilization Analysis of Positive Polynomial Fuzzy Systems With Time Delay Considering Piecewise Membership Functions. IEEE Transactions on Fuzzy Systems, 2017, 25, 958-971.	6.5	46
99	A switching controller for uncertain nonlinear systems. IEEE Control Systems, 2002, 22, 7-14.	1.0	45
100	Stability analysis and control synthesis for fuzzyâ€observerâ€based controller of nonlinear systems: a fuzzyâ€modelâ€based control approach. IET Control Theory and Applications, 2013, 7, 663-672.	1.2	45
101	Classification of electromyographic hand gesture signals using machine learning techniques. Neurocomputing, 2020, 401, 236-248.	3.5	45
102	The Q-learning obstacle avoidance algorithm based on EKF-SLAM for NAO autonomous walking under unknown environments. Robotics and Autonomous Systems, 2015, 72, 29-36.	3.0	44
103	Event-Triggered Prescribed-Time Fuzzy Control for Space Teleoperation Systems Subject to Multiple Constraints and Uncertainties. IEEE Transactions on Fuzzy Systems, 2021, 29, 2785-2797.	6.5	44
104	Aperiodic Sampled-Data-Based Control for Interval Type-2 Fuzzy Systems via Refined Adaptive Event-Triggered Communication Scheme. IEEE Transactions on Fuzzy Systems, 2021, 29, 310-321.	6.5	44
105	A Novel Approach to State and Unknown Input Estimation for Takagiâ€"Sugeno Fuzzy Models With Applications to Fault Detection. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 2053-2063.	3.5	44
106	Fuzzy controller with stability and performance rules for nonlinear systems. Fuzzy Sets and Systems, 2007, 158, 147-163.	1.6	43
107	Output-feedback sampled-data polynomial controller for nonlinear systems. Automatica, 2011, 47, 2457-2461.	3.0	43
108	A study of neural-network-based classifiers for material classification. Neurocomputing, 2014, 144, 367-377.	3.5	43

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109	A combined robust fuzzy time series method for prediction of time series. Neurocomputing, 2017, 247, 87-101.	3.5	43
110	Further Study on Observer Design for Continuous-Time Takagiâ€"Sugeno Fuzzy Model With Unknown Premise Variables via Average Dwell Time. IEEE Transactions on Cybernetics, 2020, 50, 4855-4860.	6.2	43
111	Optimal and Stable Fuzzy Controllers for Nonlinear Systems Based on an Improved Genetic Algorithm. IEEE Transactions on Industrial Electronics, 2004, 51, 172-182.	5.2	42
112	Interval type-2 fuzzy control for nonlinear discrete-time systems with time-varying delays. Neurocomputing, 2015, 157, 22-32.	3.5	42
113	Stability and Stabilization With Additive Freedom for Delayed Takagiâ€"Sugeno Fuzzy Systems by Intermediary-Polynomial-Based Functions. IEEE Transactions on Fuzzy Systems, 2020, 28, 692-705.	6.5	41
114	Synchronization Analysis for Nonlinear Complex Networks With Reaction-Diffusion Terms Using Fuzzy-Model-Based Approach. IEEE Transactions on Fuzzy Systems, 2021, 29, 1350-1362.	6.5	41
115	Fault detection for nonlinear networked systems based on quantization and dropout compensation: An interval type-2 fuzzy-model method. Neurocomputing, 2016, 191, 409-420.	3.5	40
116	Reliable Sliding Mode Control of Fast Sampling Singularly Perturbed Systems: A Redundant Channel Transmission Protocol Approach. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4490-4501.	3.5	40
117	Stability analysis of fuzzy-model-based control systems: application on regulation of switching DCâ€"DC converter. IET Control Theory and Applications, 2009, 3, 1093-1106.	1.2	38
118	Fuzzy-Affine-Model-Based Output Feedback Dynamic Sliding Mode Controller Design of Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, , 1-10.	5.9	38
119	Sliding-Mode Control of Tâ€"S Fuzzy Systems Under Weighted Try-Once-Discard Protocol. IEEE Transactions on Cybernetics, 2020, 50, 4972-4982.	6.2	38
120	Event-Triggered Control for Switched Tâ€"S Fuzzy Systems With General Asynchronism. IEEE Transactions on Fuzzy Systems, 2022, 30, 27-38.	6.5	38
121	Linear matrix inequalitiesâ€"based membershipâ€"functionâ€"dependent stability analysis for nonâ€"parallel distributed compensation fuzzyâ€"modelâ€"based control systems. IET Control Theory and Applications, 2014, 8, 614-625.	1.2	37
122	Event-Based Secure Control of Tâ€"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
123	Design of a Switching Controller for Nonlinear Systems With Unknown Parameters Based on a Fuzzy Logic Approach. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1068-1074.	5.5	34
124	Asynchronous Piecewise Output-Feedback Control for Large-Scale Fuzzy Systems via Distributed Event-Triggering Schemes. IEEE Transactions on Fuzzy Systems, 2018, 26, 1688-1703.	6.5	34
125	Further Study on Stabilization for Continuous-Time Takagiâ€"Sugeno Fuzzy Systems With Time Delay. IEEE Transactions on Cybernetics, 2021, 51, 5637-5643.	6.2	34
126	Fuzzy control of a class of multivariable nonlinear systems subject to parameter uncertainties: model reference approach. International Journal of Approximate Reasoning, 2001, 26, 129-144.	1.9	33

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127	Accurate Bolt Tightening Using Model-Free Fuzzy Control for Wind Turbine Hub Bearing Assembly. IEEE Transactions on Control Systems Technology, 2015, 23, 1-12.	3.2	33
128	The study of model predictive control algorithm based on the force/position control scheme of the 5-DOF redundant actuation parallel robot. Robotics and Autonomous Systems, 2016, 79, 12-25.	3.0	33
129	A Polynomial Membership Function Approach for Stability Analysis of Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2021, 29, 2077-2087.	6.5	33
130	Depth Estimation of Hard Inclusions in Soft Tissue by Autonomous Robotic Palpation Using Deep Recurrent Neural Network. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1791-1799.	3.4	33
131	Classification of Electromyographic Hand Gesture Signals Using Modified Fuzzy C-Means Clustering and Two-Step Machine Learning Approach. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1428-1435.	2.7	33
132	Tuning of the structure and parameters of neural network using an improved genetic algorithm. , 0, , .		32
133	Classification of epilepsy seizure phase using interval type-2 fuzzy support vector machines. Neurocomputing, 2016, 199, 66-76.	3.5	32
134	Design of polynomial fuzzy observer–controller with membership functions using unmeasurable premise variables for nonlinear systems. Information Sciences, 2016, 355-356, 186-207.	4.0	32
135	Adaptive PID controller based on Q –learning algorithm. CAAI Transactions on Intelligence Technology, 2018, 3, 235-244.	3.4	32
136	Design of fuzzy controllers for uncertain nonlinear systems using stability and robustness analyses. Systems and Control Letters, 1998, 35, 237-243.	1.3	31
137	STABILIZATION OF CHAOTIC SYSTEMS USING LINEAR SAMPLED-DATA CONTROLLER. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 2021-2031.	0.7	31
138	Fuzzy-Affine-Model-Based Sampled-Data Filtering Design for Stochastic Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2021, 29, 3360-3373.	6.5	31
139	Analysis and Design of Interval Type-2 Polynomial-Fuzzy-Model-Based Networked Tracking Control Systems. IEEE Transactions on Fuzzy Systems, 2021, 29, 2750-2759.	6.5	31
140	Stability analysis of sampled-data fuzzy controller for nonlinear systems based on switching T–S fuzzy model. Nonlinear Analysis: Hybrid Systems, 2009, 3, 418-432.	2.1	30
141	Sampled-data fuzzy-model-based control systems: stability analysis with consideration of analogue-to-digital converter and digital-to-analogue converter. IET Control Theory and Applications, 2010, 4, 1131-1144.	1.2	30
142	Classification of epilepsy using computational intelligence techniques. CAAI Transactions on Intelligence Technology, 2016, 1, 137-149.	3.4	30
143	A New Design of Membership-Function-Dependent Controller for T-S Fuzzy Systems Under Imperfect Premise Matching. IEEE Transactions on Fuzzy Systems, 2019, 27, 1428-1440.	6.5	30
144	New Results on Dissipative Control for a Class of Singular Takagi–Sugeno Fuzzy Systems With Time Delay. IEEE Transactions on Fuzzy Systems, 2022, 30, 2466-2475.	6.5	30

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145	Fuzzy-Model-Based Asynchronous Fault Detection for Markov Jump Systems With Partially Unknown Transition Probabilities: An Adaptive Event-Triggered Approach. IEEE Transactions on Fuzzy Systems, 2022, 30, 4679-4689.	6.5	29
146	fuzzy PID control synthesis for Takagiâ€"Sugeno fuzzy systems. IET Control Theory and Applications, 2016, 10, 607-616.	1.2	27
147	Tracking control design of interval type-2 polynomial-fuzzy-model-based systems with time-varying delay. Engineering Applications of Artificial Intelligence, 2018, 75, 76-87.	4.3	27
148	Static Output Feedback Stabilization of Positive Polynomial Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2018, 26, 1600-1612.	6.5	26
149	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e521" altimg="si326.svg"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>âˆž</mml:mi></mml:mrow> control for continuous-time Takagiâ€"Sugeno fuzzy model by applying generalized Lyapunov function and introducing outer variables. Automatica, 2021, 125, 109409.	3.0	26
150	Extended-Dissipativity-Based Adaptive Event-Triggered Control for Stochastic Polynomial Fuzzy Singular Systems. IEEE Transactions on Fuzzy Systems, 2022, 30, 3224-3236.	6.5	26
151	Design of Fuzzy Functional Observer-Controller via Higher Order Derivatives of Lyapunov Function for Nonlinear Systems. IEEE Transactions on Cybernetics, 2017, 47, 1630-1640.	6.2	25
152	Fuzzy-Model-Based Output Feedback Steering Control in Autonomous Driving Subject to Actuator Constraints. IEEE Transactions on Fuzzy Systems, 2021, 29, 457-470.	6.5	25
153	Event-Based Dissipative Control of Interval Type-2 Fuzzy Markov Jump Systems Under Sensor Saturation and Actuator Nonlinearity. IEEE Transactions on Fuzzy Systems, 2022, 30, 714-727.	6.5	25
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