

Wen-Jer Chang

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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.

81
papers

736
citations

16
h-index

22
g-index

122
ext. papers

969
ext. citations

2.7
avg, IF

4.48
L-index

#	Paper	IF	Citations
81	Robust fuzzy control for uncertain stochastic time-delay Takagi-Sugeno fuzzy models for achieving passivity. <i>Fuzzy Sets and Systems</i> , 2010 , 161, 2012-2032	3.7	47
80	Constrained fuzzy controller design of discrete Takagi-Sugeno fuzzy models. <i>Fuzzy Sets and Systems</i> , 2003 , 133, 37-55	3.7	37
79	Passive fuzzy controller design for nonlinear systems with multiplicative noises. <i>Journal of the Franklin Institute</i> , 2010 , 347, 732-750	4	35
78	Sliding mode fuzzy control for Takagi-Sugeno fuzzy systems with bilinear consequent part subject to multiple constraints. <i>Information Sciences</i> , 2016 , 327, 258-271	7.7	34
77	Fuzzy control of multiplicative noised nonlinear systems subject to actuator saturation and H_2 performance constraints. <i>Neurocomputing</i> , 2015 , 148, 512-520	5.4	26
76	H_2 -constrained fuzzy control via state observer feedback for discrete-time Takagi-Sugeno fuzzy systems with multiplicative noises. <i>ISA Transactions</i> , 2011 , 50, 37-43	5.5	26
75	Fuzzy controller design for passive continuous-time affine T-S fuzzy models with relaxed stability conditions. <i>ISA Transactions</i> , 2009 , 48, 295-303	5.5	24
74	AQM router design for TCP network via input constrained fuzzy control of time-delay affine Takagi-Sugeno fuzzy models. <i>International Journal of Systems Science</i> , 2012 , 43, 2297-2313	2.3	24
73	Sliding mode fuzzy control for nonlinear stochastic systems subject to pole assignment and variance constraint. <i>Information Sciences</i> , 2018 , 432, 133-145	7.7	23
72	Covariance control with variance constraints for continuous perturbed stochastic systems. <i>Systems and Control Letters</i> , 1992 , 19, 413-417	2.4	22
71	Continuous Fuzzy Controller Design Subject to Minimizing Control Input Energy with Output Variance Constraints. <i>European Journal of Control</i> , 2005 , 11, 269-277	2.5	21
70	PDC and Non-PDC fuzzy control with relaxed stability conditions for continuous-time multiplicative noised fuzzy systems. <i>Journal of the Franklin Institute</i> , 2012 , 349, 2664-2686	4	20
69	Synthesis of nonlinear discrete control systems via time-delay affine Takagi-Sugeno fuzzy models. <i>ISA Transactions</i> , 2005 , 44, 243-57	5.5	20
68	Covariance control for stochastic multivariable systems with hysteresis nonlinearity. <i>International Journal of Systems Science</i> , 1997 , 28, 731-736	2.3	19
67	Analysis and synthesis of discrete nonlinear passive systems via affine TS fuzzy models. <i>International Journal of Systems Science</i> , 2008 , 39, 809-821	2.3	18
66	A Covariance Controller Design Incorporating Optimal Estimation for Nonlinear Stochastic Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1996 , 118, 346-349	1.6	17
65	Upper bound covariance control of discrete perturbed systems. <i>Systems and Control Letters</i> , 1992 , 19, 493-498	2.4	15

64	Model-Based Fuzzy Controller Design With Common Observability Gramian Assignment. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2001 , 123, 113-116	1.6	14
63	Passive fuzzy controller design via observer feedback for stochastic Takagi-Sugeno fuzzy models with multiplicative noises. <i>International Journal of Control, Automation and Systems</i> , 2011 , 9, 550-557	2.9	13
62	Fuzzy Controller Design via the Inverse Solution of Lyapunov Equations. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2003 , 125, 42-47	1.6	13
61	Robust fuzzy control subject to state variance and passivity constraints for perturbed nonlinear systems with multiplicative noises. <i>ISA Transactions</i> , 2014 , 53, 1787-95	5.5	12
60	Complex performance control using sliding mode fuzzy approach for discrete-time nonlinear systems via T-S fuzzy model with bilinear consequent part. <i>International Journal of Control, Automation and Systems</i> , 2017 , 15, 1901-1915	2.9	12
59	Intelligent fuzzy control with imperfect premise matching concept for complex nonlinear multiplicative noised systems. <i>Neurocomputing</i> , 2015 , 154, 276-283	5.4	12
58	Robust fuzzy control for discrete perturbed time-delay affine Takagi-Sugeno fuzzy models. <i>International Journal of Control, Automation and Systems</i> , 2011 , 9, 86-97	2.9	12
57	Mamdani and Takagi-Sugeno fuzzy controller design for ship fin stabilizing systems 2015 ,		11
56	Passive Fuzzy Control via Fuzzy Integral Lyapunov Function for Nonlinear Ship Drum-Boiler Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	11
55	A study of H _∞ norm and variance-constrained design using dynamic output feedback for linear discrete systems. <i>International Journal of Control</i> , 1993 , 57, 473-483	1.5	11
54	Robust Fuzzy Control with Transient and Steady-State Performance Constraints for Ship Fin Stabilizing Systems. <i>International Journal of Fuzzy Systems</i> , 2019 , 21, 518-531	3.6	11
53	Fuzzy Control with Pole Assignment and Variance Constraints for Continuous-time Perturbed Takagi-Sugeno Fuzzy Models: Application to Ship Steering Systems. <i>International Journal of Control, Automation and Systems</i> , 2019 , 17, 2677-2692	2.9	10
52	Variance and passivity constrained sliding mode fuzzy control for continuous stochastic non-linear systems. <i>Neurocomputing</i> , 2016 , 201, 29-39	5.4	10
51	Discrete H_2/H_∞ Nonlinear Controller Design Based on Fuzzy Region Concept and Takagi-Sugeno Fuzzy Framework. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 2006 , 53, 2838-2848		9
50	Discrete Fuzzy Controller Design for Achieving Common State Covariance Assignment. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2004 , 126, 627-632	1.6	9
49	Robust covariance control for discrete system by Takagi-Sugeno fuzzy controllers. <i>ISA Transactions</i> , 2004 , 43, 377-87	5.5	9
48	Mixed sliding mode fuzzy control for discrete-time non-linear stochastic systems subject to variance and passivity constraints. <i>IET Control Theory and Applications</i> , 2015 , 9, 2369-2376	2.5	8
47	Covariance control with observed-state feedback gains for continuous nonlinear systems using T-S fuzzy models. <i>ISA Transactions</i> , 2004 , 43, 389-98	5.5	8

46	T-S region-based fuzzy control with multiple performance constraints. <i>ISA Transactions</i> , 2007 , 46, 85-93	5.5	7
45	Observer-based proportional derivative fuzzy control for singular Takagi-Sugeno fuzzy systems. <i>Information Sciences</i> , 2021 , 570, 815-830	7.7	7
44	Multi-constrained fuzzy intelligent control for uncertain discrete systems with complex noises: an application to ship steering systems. <i>Journal of Marine Engineering and Technology</i> , 2017 , 16, 11-21	1.3	6
43	Robust fuzzy control for continuous perturbed time-delay affine takagi Sugeno fuzzy models. <i>Asian Journal of Control</i> , 2011 , 13, 818-830	1.7	6
42	Multivariable performance-constrained sliding mode control for ship yaw-motion systems with perturbations*. <i>International Journal of Adaptive Control and Signal Processing</i> , 2000 , 14, 393-409	2.8	6
41	Passive fuzzy controller design for a model car via discrete T-S fuzzy model with multiplicative noise 2009 ,		5
40	DISCRETE OUTPUT FUZZY CONTROLLER DESIGN FOR ACHIEVING COMMON CONTROLLABILITY GRAMIAN. <i>Asian Journal of Control</i> , 2008 , 2, 284-289	1.7	5
39	Actuator Saturated Fuzzy Controller Design for Interval Type-2 Takagi-Sugeno Fuzzy Models with Multiplicative Noises. <i>Processes</i> , 2021 , 9, 823	2.9	5
38	Passive estimated state feedback fuzzy controller design for discrete perturbed fuzzy systems with multiplicative noises 2013 , 36, 684-695		4
37	Variance and Passivity Constrained Fuzzy Control for Nonlinear Ship Steering Systems with State Multiplicative Noises. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-10	1.1	4
36	State variance constrained fuzzy controller design for nonlinear TORA systems with minimizing control input energy		4
35	Multi-constrained Fuzzy Control for Perturbed TS Fuzzy Singular Systems by Proportional-Plus-Derivative State Feedback Method. <i>International Journal of Fuzzy Systems</i> , 1	3.6	4
34	Robust Fuzzy-Based Sliding Mode Control for Uncertain Discrete Nonlinear Systems for Achieving Performance Requirements. <i>International Journal of Fuzzy Systems</i> , 2018 , 20, 246-258	3.6	4
33	Robust sliding mode fuzzy control for perturbed nonlinear stochastic systems subject to input and state requirements. <i>Journal of Intelligent and Fuzzy Systems</i> , 2017 , 32, 4285-4297	1.6	3
32	Fuzzy Stabilization for Nonlinear Discrete Ship Steering Stochastic Systems Subject to State Variance and Passivity Constraints. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-12	1.1	3
31	Delay-dependent robust control of stochastic systems with convex polynomial uncertainty. <i>Optimal Control Applications and Methods</i> , 2020 , 41, 2213-2224	1.7	3
30	Observer-Based Fuzzy Controller Design for Nonlinear Discrete-Time Singular Systems via Proportional Derivative Feedback Scheme. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2833	2.6	3
29	Discrete-time robust fuzzy control synthesis for discretized and perturbed ship fin stabilizing systems subject to variance and pole location constraints. <i>Journal of Marine Science and Technology</i> , 2021 , 26, 201-215	1.7	3

28	Fuzzy controller design for nonlinear singular systems with external noises subject to passivity constraints. <i>Asian Journal of Control</i> , 2021 , 23, 1195	1.7	3
27	Robust and Passive Constrained Fuzzy Control for Discrete Fuzzy Systems with Multiplicative Noises and Interval Time Delay. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-12	1.1	2
26	Stabilization for Truck-Trailer Mobile Robot System via Discrete LPV T-S Fuzzy Models. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 209-217	0.4	2
25	Pole Location and Input Constrained Robust Fuzzy Control for T-S Fuzzy Models Subject to Passivity and Variance Requirements. <i>Processes</i> , 2021 , 9, 787	2.9	2
24	Novel Delay-Dependent Stabilization for Fuzzy Stochastic Systems with Multiplicative Noise Subject to Passivity Constraint. <i>Processes</i> , 2021 , 9, 1445	2.9	2
23	Gain-scheduled controller design for linear parameter varying systems subject to pole assignment. <i>Optimal Control Applications and Methods</i> , 2020 , 41, 1439-1450	1.7	1
22	Fuzzy integral Lyapunov function based fuzzy control for Takagi-Sugeno fuzzy systems with passive constraints 2013 ,		1
21	Imperfect premise matching based fuzzy control with passive constraints for discrete time-delay multiplicative noised stochastic nonlinear systems. <i>International Journal of Control, Automation and Systems</i> , 2013 , 11, 614-623	2.9	1
20	Actuator Saturation Constrained Fuzzy Control for Discrete Stochastic Fuzzy Systems with Multiplicative Noises. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-9	1.1	1
19	Fuzzy control with relaxed nonquadratic stability conditions for inverted pendulum robot system with multiplicative noise 2010 ,		1
18	Stabilization of fuzzy stochastic systems with multiplicative noise subject to actuator saturation 2010 ,		1
17	Observer-based H _∞ fuzzy control design for discrete-time stochastic T-S fuzzy model with multiplicative noise 2009 ,		1
16	Stabilization of large-scale fuzzy systems with time-varying interconnection 2011 ,		1
15	Robust fuzzy control for passive Continuous Stirred Tank Reactor system with multiplicative noise 2009 ,		1
14	Design of Takagi-Sugeno Fuzzy Region Controller Based on Rule Reduction, Robust Control, and Switching Concept. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2007 , 129, 163-170	1.6	1
13	Synthesis of Discrete Nonlinear Passive Systems via Affine T-S Fuzzy Models with Input Energy Constraints 2007 ,		1
12	Fuzzy control of continuous time-delay affine T-S fuzzy systems		1
11	Common observability Gramian assignment using discrete fuzzy control 1999 ,		1

10	Fuzzy Control for Discrete Passive Affine T-S Fuzzy Systems with Observer Feedback 2007 , 623-631		1
9	Dynamic positioning of ships based on robust fuzzy observer. <i>Journal of Engineering</i> , 2020 , 2020, 228-238.	7	1
8	Passive Decentralized Fuzzy Control for Takagi-Sugeno Fuzzy Model Based Large-Scale Descriptor Systems. <i>IEEE Access</i> , 2022 , 10, 28656-28669		3.5 1
7	Development of Fuzzy Observer Gain Design Algorithm for Ship Path Estimation Based on AIS Data. <i>Processes</i> , 2022 , 10, 33		2.9 0
6	New H _∞ observer-based control for delayed LPV stochastic system. <i>IET Control Theory and Applications</i> , 2022 , 16, 353-365		2.5 0
5	Robust fuzzy control for nonlinear discrete-time systems with internal and external noises subject to multi-variance constraints and pole location constraints. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020 , 38, 4959-4975		1.6
4	Marine Engineering and Applications. <i>Mathematical Problems in Engineering</i> , 2013 , 2013, 1-2		1.1
3	Intelligent Fuzzy Control with Multiple Constraints for a Model Car System with Multiplicative Disturbance. <i>Lecture Notes in Computer Science</i> , 2014 , 1-12		0.9
2	Output feedback synchronization control for supply vessels during underway replenishment with unknown dynamics and disturbances under input saturation. <i>Ships and Offshore Structures</i> , 1-11		1.4
1	Robust Decentralized Fuzzy Controller Design for Nonlinear Large-Scale Interconnected Descriptor Systems. <i>Journal of Physics: Conference Series</i> , 2022 , 2213, 012006		0.3