

# Wen-Jer Chang

## 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.

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	Passive Decentralized Fuzzy Control for Takagi-Sugeno Fuzzy Model Based Large-Scale Descriptor Systems. <i>IEEE Access</i> , <b>2022</b> , 10, 28656-28669	3.5	1
80	Robust Decentralized Fuzzy Controller Design for Nonlinear Large-Scale Interconnected Descriptor Systems. <i>Journal of Physics: Conference Series</i> , <b>2022</b> , 2213, 012006	0.3	
79	Development of Fuzzy Observer Gain Design Algorithm for Ship Path Estimation Based on AIS Data. <i>Processes</i> , <b>2022</b> , 10, 33	2.9	0
78	New H <sub>∞</sub> Observer-based control for delayed LPV stochastic system. <i>IET Control Theory and Applications</i> , <b>2022</b> , 16, 353-365	2.5	0
77	Observer-Based Fuzzy Controller Design for Nonlinear Discrete-Time Singular Systems via Proportional Derivative Feedback Scheme. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2833	2.6	3
76	Pole Location and Input Constrained Robust Fuzzy Control for T-S Fuzzy Models Subject to Passivity and Variance Requirements. <i>Processes</i> , <b>2021</b> , 9, 787	2.9	2
75	Actuator Saturated Fuzzy Controller Design for Interval Type-2 Takagi-Sugeno Fuzzy Models with Multiplicative Noises. <i>Processes</i> , <b>2021</b> , 9, 823	2.9	5
74	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> , <b>2021</b> , 26, 201-215	1.7	3
73	Novel Delay-Dependent Stabilization for Fuzzy Stochastic Systems with Multiplicative Noise Subject to Passivity Constraint. <i>Processes</i> , <b>2021</b> , 9, 1445	2.9	2
72	Observer-based proportional derivative fuzzy control for singular Takagi-Sugeno fuzzy systems. <i>Information Sciences</i> , <b>2021</b> , 570, 815-830	7.7	7
71	Fuzzy controller design for nonlinear singular systems with external noises subject to passivity constraints. <i>Asian Journal of Control</i> , <b>2021</b> , 23, 1195	1.7	3
70	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> , <b>2020</b> , 38, 4959-4975	1.6	
69	Gain-scheduled controller design for linear parameter varying systems subject to pole assignment. <i>Optimal Control Applications and Methods</i> , <b>2020</b> , 41, 1439-1450	1.7	1
68	Dynamic positioning of ships based on robust fuzzy observer. <i>Journal of Engineering</i> , <b>2020</b> , 2020, 228-238.7		1
67	Delay-dependent robust control of stochastic systems with convex polynomial uncertainty. <i>Optimal Control Applications and Methods</i> , <b>2020</b> , 41, 2213-2224	1.7	3
66	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> , <b>2019</b> , 17, 2677-2692	2.9	10
65	Robust Fuzzy Control with Transient and Steady-State Performance Constraints for Ship Fin Stabilizing Systems. <i>International Journal of Fuzzy Systems</i> , <b>2019</b> , 21, 518-531	3.6	11

64	Sliding mode fuzzy control for nonlinear stochastic systems subject to pole assignment and variance constraint. <i>Information Sciences</i> , <b>2018</b> , 432, 133-145	7.7	23
63	Robust Fuzzy-Based Sliding Mode Control for Uncertain Discrete Nonlinear Systems for Achieving Performance Requirements. <i>International Journal of Fuzzy Systems</i> , <b>2018</b> , 20, 246-258	3.6	4
62	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> , <b>2017</b> , 16, 11-21	1.3	6
61	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> , <b>2017</b> , 15, 1901-1915	2.9	12
60	Robust sliding mode fuzzy control for perturbed nonlinear stochastic systems subject to input and state requirements. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2017</b> , 32, 4285-4297	1.6	3
59	Sliding mode fuzzy control for Takagi-Sugeno fuzzy systems with bilinear consequent part subject to multiple constraints. <i>Information Sciences</i> , <b>2016</b> , 327, 258-271	7.7	34
58	Variance and passivity constrained sliding mode fuzzy control for continuous stochastic non-linear systems. <i>Neurocomputing</i> , <b>2016</b> , 201, 29-39	5.4	10
57	Fuzzy control of multiplicative noised nonlinear systems subject to actuator saturation and $H_2$ performance constraints. <i>Neurocomputing</i> , <b>2015</b> , 148, 512-520	5.4	26
56	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> , <b>2015</b> , 9, 2369-2376	2.5	8
55	Mamdani and Takagi-Sugeno fuzzy controller design for ship fin stabilizing systems <b>2015</b> ,		11
54	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> , <b>2015</b> , 137,	1.6	11
53	Intelligent fuzzy control with imperfect premise matching concept for complex nonlinear multiplicative noised systems. <i>Neurocomputing</i> , <b>2015</b> , 154, 276-283	5.4	12
52	Robust fuzzy control subject to state variance and passivity constraints for perturbed nonlinear systems with multiplicative noises. <i>ISA Transactions</i> , <b>2014</b> , 53, 1787-95	5.5	12
51	Fuzzy Stabilization for Nonlinear Discrete Ship Steering Stochastic Systems Subject to State Variance and Passivity Constraints. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-12	1.1	3
50	Intelligent Fuzzy Control with Multiple Constraints for a Model Car System with Multiplicative Disturbance. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 1-12	0.9	
49	Fuzzy integral Lyapunov function based fuzzy control for Takagi-Sugeno fuzzy systems with passive constraints <b>2013</b> ,		1
48	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> , <b>2013</b> , 11, 614-623	2.9	1
47	Passive estimated state feedback fuzzy controller design for discrete perturbed fuzzy systems with multiplicative noises <b>2013</b> , 36, 684-695		4

46	Actuator Saturation Constrained Fuzzy Control for Discrete Stochastic Fuzzy Systems with Multiplicative Noises. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-9	1.1	1
45	Marine Engineering and Applications. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-2	1.1	
44	Robust and Passive Constrained Fuzzy Control for Discrete Fuzzy Systems with Multiplicative Noises and Interval Time Delay. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-12	1.1	2
43	Variance and Passivity Constrained Fuzzy Control for Nonlinear Ship Steering Systems with State Multiplicative Noises. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-10	1.1	4
42	Stabilization for Truck-Trailer Mobile Robot System via Discrete LPV T-S Fuzzy Models. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 209-217	0.4	2
41	PDC and Non-PDC fuzzy control with relaxed stability conditions for continuous-time multiplicative noised fuzzy systems. <i>Journal of the Franklin Institute</i> , <b>2012</b> , 349, 2664-2686	4	20
40	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> , <b>2012</b> , 43, 2297-2313	2.3	24
39	Robust fuzzy control for continuous perturbed time-delay affine Takagi-Sugeno fuzzy models. <i>Asian Journal of Control</i> , <b>2011</b> , 13, 818-830	1.7	6
38	H <sub>∞</sub> constrained fuzzy control via state observer feedback for discrete-time Takagi-Sugeno fuzzy systems with multiplicative noises. <i>ISA Transactions</i> , <b>2011</b> , 50, 37-43	5.5	26
37	Robust fuzzy control for discrete perturbed time-delay affine Takagi-Sugeno fuzzy models. <i>International Journal of Control, Automation and Systems</i> , <b>2011</b> , 9, 86-97	2.9	12
36	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> , <b>2011</b> , 9, 550-557	2.9	13
35	Stabilization of large-scale fuzzy systems with time-varying interconnection <b>2011</b> ,		1
34	Fuzzy control with relaxed nonquadratic stability conditions for inverted pendulum robot system with multiplicative noise <b>2010</b> ,		1
33	Stabilization of fuzzy stochastic systems with multiplicative noise subject to actuator saturation <b>2010</b> ,		1
32	Passive fuzzy controller design for nonlinear systems with multiplicative noises. <i>Journal of the Franklin Institute</i> , <b>2010</b> , 347, 732-750	4	35
31	Robust fuzzy control for uncertain stochastic time-delay Takagi-Sugeno fuzzy models for achieving passivity. <i>Fuzzy Sets and Systems</i> , <b>2010</b> , 161, 2012-2032	3.7	47
30	Observer-based H <sub>∞</sub> fuzzy control design for discrete-time stochastic T-S fuzzy model with multiplicative noise <b>2009</b> ,		1
29	Passive fuzzy controller design for a model car via discrete T-S fuzzy model with multiplicative noise <b>2009</b> ,		5

28	Fuzzy controller design for passive continuous-time affine T-S fuzzy models with relaxed stability conditions. <i>ISA Transactions</i> , <b>2009</b> , 48, 295-303	5.5	24
27	Robust fuzzy control for passive Continuous Stirred Tank Reactor system with multiplicative noise <b>2009</b> ,		1
26	DISCRETE OUTPUT FUZZY CONTROLLER DESIGN FOR ACHIEVING COMMON CONTROLLABILITY GRAMIAN. <i>Asian Journal of Control</i> , <b>2008</b> , 2, 284-289	1.7	5
25	Analysis and synthesis of discrete nonlinear passive systems via affine TS fuzzy models. <i>International Journal of Systems Science</i> , <b>2008</b> , 39, 809-821	2.3	18
24	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> , <b>2007</b> , 129, 163-170	1.6	1
23	Synthesis of Discrete Nonlinear Passive Systems via Affine T-S Fuzzy Models with Input Energy Constraints <b>2007</b> ,		1
22	T-S region-based fuzzy control with multiple performance constraints. <i>ISA Transactions</i> , <b>2007</b> , 46, 85-93	5.5	7
21	Fuzzy Control for Discrete Passive Affine T-S Fuzzy Systems with Observer Feedback <b>2007</b> , 623-631		1
20	Discrete $H_2/H_\infty$ 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> , <b>2006</b> , 53, 2838-2848		9
19	Continuous Fuzzy Controller Design Subject to Minimizing Control Input Energy with Output Variance Constraints. <i>European Journal of Control</i> , <b>2005</b> , 11, 269-277	2.5	21
18	Synthesis of nonlinear discrete control systems via time-delay affine Takagi-Sugeno fuzzy models. <i>ISA Transactions</i> , <b>2005</b> , 44, 243-57	5.5	20
17	Discrete Fuzzy Controller Design for Achieving Common State Covariance Assignment. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2004</b> , 126, 627-632	1.6	9
16	Robust covariance control for discrete system by Takagi-Sugeno fuzzy controllers. <i>ISA Transactions</i> , <b>2004</b> , 43, 377-87	5.5	9
15	Covariance control with observed-state feedback gains for continuous nonlinear systems using T-S fuzzy models. <i>ISA Transactions</i> , <b>2004</b> , 43, 389-98	5.5	8
14	Constrained fuzzy controller design of discrete Takagi-Sugeno fuzzy models. <i>Fuzzy Sets and Systems</i> , <b>2003</b> , 133, 37-55	3.7	37
13	Fuzzy Controller Design via the Inverse Solution of Lyapunov Equations. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2003</b> , 125, 42-47	1.6	13
12	Model-Based Fuzzy Controller Design With Common Observability Gramian Assignment. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2001</b> , 123, 113-116	1.6	14
11	Multivariable performance-constrained sliding mode control for ship yaw-motion systems with perturbations*. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2000</b> , 14, 393-409	2.8	6

10	Common observability Gramian assignment using discrete fuzzy control <b>1999</b> ,		1
9	Covariance control for stochastic multivariable systems with hysteresis nonlinearity. <i>International Journal of Systems Science</i> , <b>1997</b> , 28, 731-736	2.3	19
8	A Covariance Controller Design Incorporating Optimal Estimation for Nonlinear Stochastic Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>1996</b> , 118, 346-349	1.6	17
7	A study of H <sub>∞</sub> norm and variance-constrained design using dynamic output feedback for linear discrete systems. <i>International Journal of Control</i> , <b>1993</b> , 57, 473-483	1.5	11
6	Upper bound covariance control of discrete perturbed systems. <i>Systems and Control Letters</i> , <b>1992</b> , 19, 493-498	2.4	15
5	Covariance control with variance constraints for continuous perturbed stochastic systems. <i>Systems and Control Letters</i> , <b>1992</b> , 19, 413-417	2.4	22
4	Fuzzy control of continuous time-delay affine T-S fuzzy systems		1
3	State variance constrained fuzzy controller design for nonlinear TORA systems with minimizing control input energy		4
2	Multi-constrained Fuzzy Control for Perturbed T <sub>S</sub> Fuzzy Singular Systems by Proportional-Plus-Derivative State Feedback Method. <i>International Journal of Fuzzy Systems</i> , 1	3.6	4
1	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	