Cheung-Chieh Ku

List of Publications by Year
in descending order

69 papers	557 citations	623188 14 h-index	713013 21 g-index
69 all docs	69 docs citations	69 times ranked	310 citing authors

#	Article	IF	Citations
1	Passive Decentralized Fuzzy Control for Takagi-Sugeno Fuzzy Model Based Large-Scale Descriptor Systems. IEEE Access, 2022, 10, 28656-28669.	2.6	13
2	New H_∞ observer‐based control for delayed LPV stochastic system. IET Control Theory and Applications, 2022, 16, 353-365.	1.2	2
3	Solving the Formation and Containment Control Problem of Nonlinear Multi-Boiler Systems Based on Interval Type-2 Takagi–Sugeno Fuzzy Models. Processes, 2022, 10, 1216.	1.3	9
4	Observer-Based Proportional Derivative Robust Fuzzy Control for Nonlinear Singular Systems. , 2022, , .		0
5	Fuzzy Static Output Control of T–S Fuzzy Stochastic Systems via Line Integral Lyapunov Function. Processes, 2021, 9, 697.	1.3	7
6	Intelligent Fuzzy Control with State-Derivative Feedback for Takagi-Sugeno Fuzzy Stochastic Singular Systems. Journal of Marine Science and Technology, 2021, 29, 305-318.	0.1	3
7	Novel Delay-Dependent Stabilization for Fuzzy Stochastic Systems with Multiplicative Noise Subject to Passivity Constraint. Processes, 2021, 9, 1445.	1.3	6
8	Observer-based proportional derivative fuzzy control for singular Takagi-Sugeno fuzzy systems. Information Sciences, 2021, 570, 815-830.	4.0	39
9	Relaxed observer-based controller design method of discrete-time multiplicative noised LPV systems via an extended projective lemma. International Journal of Control, 2020, 93, 462-472.	1.2	8
10	A Relaxed Observer-Based Control for LPV Stochastic Systems Subject to H_∞ Performance. International Journal of Control, Automation and Systems, 2020, 18, 1033-1044.	1.6	4
11	Delay‐dependent robust control of stochastic systems with convex polynomial uncertainty. Optimal Control Applications and Methods, 2020, 41, 2213-2224.	1.3	5
12	Gain‐scheduled controller design for linear parameter varying systems subject to pole assignment. Optimal Control Applications and Methods, 2020, 41, 1439-1450.	1.3	2
13	PASSIVE FUZZY CONTROLLER DESIGN FOR PERTURBED NONLINEAR DRUM-BOILER SYSTEM WITH MULTIPLICATIVE NOISE. Journal of Marine Science and Technology, 2020, 18, .	0.1	4
14	The Output Feedback Control of LPV Stochastic Systems. , 2020, , .		0
15	Gain-Scheduled Control of Delayed Diesel Engine System with Time-Varying Parameter. , 2020, , .		0
16	New observer‐based controller design for LPV stochastic systems with multiplicative noise. International Journal of Robust and Nonlinear Control, 2019, 29, 4315-4327.	2.1	15
17	Robust H_∞ Control of Uncertain Stochastic Systems with Time-varying Interval Delays. International Journal of Control, Automation and Systems, 2018, 16, 243-255.	1.6	3
18	Sliding mode fuzzy control for nonlinear stochastic systems subject to pole assignment and variance constraint. Information Sciences, 2018, 432, 133-145.	4.0	31

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19	Robust Fuzzy-Based Sliding Mode Control for Uncertain Discrete Nonlinear Systems for Achieving Performance Requirements. International Journal of Fuzzy Systems, 2018, 20, 246-258.	2.3	4
20	A New H<inf>∞</inf> Robust Control for Discrete Ship Autopilot Stochastic System via Observer Feedback. , 2018, , .		0
21	Multi-constrained fuzzy intelligent control for uncertain discrete systems with complex noises: an application to ship steering systems. Journal of Marine Engineering and Technology, 2017, 16, 11-21.	1.9	6
22	H<inf>∞</inf> controller design for uncertain DC servo motor stochastic system with time-varying interval delay. , 2017, , .		1
23	Delay-Dependent Robust Control for Discrete-Time Uncertain Stochastic Systems With Time-Varying Delays. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	2
24	Complex performance control using sliding mode fuzzy approach for discrete-time nonlinear systems via T-S fuzzy model with bilinear consequent part. International Journal of Control, Automation and Systems, 2017, 15, 1901-1915.	1.6	14
25	Robust sliding mode fuzzy control for perturbed nonlinear stochastic systems subject to input and state requirements. Journal of Intelligent and Fuzzy Systems, 2017, 32, 4285-4297.	0.8	3
26	Designing mixed fuzzy controller for uncertain stochastic discrete nonlinear systems. , 2016, , .		0
27	Controller synthesis of linear parameter-varying stochastic systems based on gain-scheduled technique. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2016, 39, 274-281.	0.6	5
28	Variance and passivity constrained sliding mode fuzzy control for continuous stochastic non-linear systems. Neurocomputing, 2016, 201, 29-39.	3.5	12
29	Observer-based gain-scheduled controller design of uncertain ship autopilot stochastic system. , 2016, , .		0
30	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>∞</mml:mi></mml:mrow></mml:msub></mml:mrow> Control for LPV Stochastic Systems. Mathematical Problems in Engineering, 2015, 2015, 1-14.		3
31	Stability Criterion of Linear Stochastic Systems Subject to Mixed H_2/Passivity Performance. Mathematical Problems in Engineering, 2015, 2015, 1-8.	0.6	1
32	Mixed sliding mode fuzzy control for discrete-time non-linear stochastic systems subject to variance and passivity constraints. IET Control Theory and Applications, 2015, 9, 2369-2376.	1.2	11
33	A mixed *H*₂/passivity performance controller design for a drum-boiler system. Journal of Marine Engineering and Technology, 2015, 14, 137-145.	1.9	0
34	Robust controller design for Nonlinear Uncertain Stochastic Drum-Boiler System. , 2015, , .		0
35	Passive Fuzzy Control via Fuzzy Integral Lyapunov Function for Nonlinear Ship Drum-Boiler Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	16
36	Gain-Scheduled H∞ Control for Linear Parameter Varying Stochastic Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	18

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37	Intelligent fuzzy control with imperfect premise matching concept for complex nonlinear multiplicative noised systems. Neurocomputing, 2015, 154, 276-283.	3.5	15
38	Gain-scheduled controller design for discrete-time Linear Parameter Varying systems with multiplicative noises. International Journal of Control, Automation and Systems, 2015, 13, 1382-1390.	1.6	10
39	Attitude control of satellite system with multiplicative noises. , 2014, , .		0
40	Controller design problem of discrete uncertain ship autopilot servo stochastic system. , 2014, , .		3
41	Fuzzy control of nonlinear stochastic systems with actuator saturation and performance constraints. , 2014, , .		1
42	Controller design for truck-trailer stochastic system subject to H<inf>2</inf> performance and strictly input passivity. , 2014, , .		0
43	Mixed Performance Controller Design of Dynamic Positioning Systems for Ships. Studies in Computational Intelligence, 2014, , 277-286.	0.7	0
44	Imperfect premise matching based fuzzy control with passive constraints for discrete time-delay multiplicative noised stochastic nonlinear systems. International Journal of Control, Automation and Systems, 2013, 11, 614-623.	1.6	1
45	Passive estimated state feedback fuzzy controller design for discrete perturbed fuzzy systems with multiplicative noises. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2013, 36, 684-695.	0.6	5
46	Actuator Saturation Constrained Fuzzy Control for Discrete Stochastic Fuzzy Systems with Multiplicative Noises. Mathematical Problems in Engineering, 2013, 2013, 1-9.	0.6	3
47	Robust and Passive Constrained Fuzzy Control for Discrete Fuzzy Systems with Multiplicative Noises and Interval Time Delay. Mathematical Problems in Engineering, 2013, 2013, 1-12.	0.6	3
48	PDC and Non-PDC fuzzy control with relaxed stability conditions for contintuous-time multiplicative noised fuzzy systems. Journal of the Franklin Institute, 2012, 349, 2664-2686.	1.9	32
49	Robust fuzzy control for continuous perturbed timeâ€delay affine takagiâ€"sugeno fuzzy models. Asian Journal of Control, 2011, 13, 818-830.	1.9	7
50	constrained fuzzy control via state observer feedback for discrete-time Takagiâ€"Sugeno fuzzy systems with multiplicative noises. ISA Transactions, 2011, 50, 37-43.	3.1	30
51	Robust fuzzy control for discrete perturbed time-delay affine Takagi-Sugeno fuzzy models. International Journal of Control, Automation and Systems, 2011, 9, 86-97.	1.6	16
52	Passive fuzzy controller design via observer feedback for stochastic Takagi-Sugeno fuzzy models with multiplicative noises. International Journal of Control, Automation and Systems, 2011, 9, 550-557.	1.6	17
53	Observer-based robust passive fuzzy control for discrete Takagi-Sugeno fuzzy systems. , 2011, , .		0
54	Passive fuzzy control for uncertain nonlinear stochastic inverted pendulum robot system. , 2011, , .		0

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55	Fuzzy controller design under imperfect premise matching for discrete-time inverted pendulum robot systems. , 2011, , .		0
56	Passive fuzzy controller design for nonlinear systems with multiplicative noises. Journal of the Franklin Institute, 2010, 347, 732-750.	1.9	39
57	Robust fuzzy control for uncertain stochastic time-delay Takagi–Sugeno fuzzy models for achieving passivity. Fuzzy Sets and Systems, 2010, 161, 2012-2032.	1.6	58
58	Fuzzy control with relaxed nonquadratic stability conditions for inverted pendulum robot system with multiplicative noise. , 2010, , .		1
59	Stabilization of fuzzy stochastic systems with multiplicative noise subject to actuator saturation. , 2010, , .		1
60	Observer-based H<inf>&#x221E;</inf> fuzzy control design for discrete-time stochastic T-S fuzzy model with multiplicative noise. , 2009, , .		1
61	Passive fuzzy controller design for a model car via discrete T-S fuzzy model with multiplicative noise. , 2009, , .		9
62	Fuzzy controller design for passive continuous-time affine T–S fuzzy models with relaxed stability conditions. ISA Transactions, 2009, 48, 295-303.	3.1	28
63	Robust fuzzy control for passive Continuous Stirred Tank Reactor system with multiplicative noise. , 2009, , .		2
64	Observer-based robust fuzzy controller design for uncertain stochastic T-S fuzzy model with passivity performance. , 2009, , .		1
65	Fuzzy controller design for singular affine T-S fuzzy models. , 2008, , .		1
66	Analysis and synthesis of discrete nonlinear passive systems via affine T–S fuzzy models. International Journal of Systems Science, 2008, 39, 809-821.	3.7	25
67	Delay dependent passive fuzzy control design for synchronous generator with multiplicative noise. , 2008, , .		0
68	Synthesis of Discrete Nonlinear Passive Systems via Affine T-S Fuzzy Models with Input Energy Constraints. , 2007, , .		1
69	Fuzzy Control with Passivity Constraint for Discrete Affine T-S Fuzzy Systems. , 0, , .		0