Hua O Wang

List of Publications by Year in descending order

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236833 197736 5,121 122 25 49 citations h-index g-index papers 125 125 125 2178 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	A Sum-of-Squares Approach to Modeling and Control of Nonlinear Dynamical Systems With Polynomial Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2009, 17, 911-922.	6.5	399
2	BIFURCATION CONTROL: THEORIES, METHODS, AND APPLICATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 511-548.	0.7	318
3	A Descriptor System Approach to Fuzzy Control System Design via Fuzzy Lyapunov Functions. IEEE Transactions on Fuzzy Systems, 2007, 15, 333-341.	6. 5	303
4	Bifurcation control of a chaotic system. Automatica, 1995, 31, 1213-1226.	3.0	179
5	Guaranteed Cost Control of Polynomial Fuzzy Systems via a Sum of Squares Approach. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 561-567.	5.5	153
6	Synchronization of complex dynamical networks under recoverable attacks. Automatica, 2010, 46, 197-203.	3.0	131
7	Switching fuzzy controller design based on switching Lyapunov function for a class of nonlinear systems. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 13-23.	5.5	107
8	Polynomial Fuzzy Observer Designs: A Sum-of-Squares Approach. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 1330-1342.	5 . 5	93
9	Passive stability and synchronization of complex spatio-temporal switching networks with time delays. Automatica, 2009, 45, 1721-1728.	3.0	91
10	Robust Stabilization of Complex Switched Networks With Parametric Uncertainties and Delays Via Impulsive Control. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 2100-2108.	3 . 5	88
11	Impulsive synchronization for Takagi–Sugeno fuzzy model and its application to continuous chaotic system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 339, 325-332.	0.9	72
12	A New Sum-of-Squares Design Framework for Robust Control of Polynomial Fuzzy Systems With Uncertainties. IEEE Transactions on Fuzzy Systems, 2016, 24, 94-110.	6.5	69
13	A Sum of Squares Approach to Stability Analysis of Polynomial Fuzzy Systems. Proceedings of the American Control Conference, 2007, , .	0.0	68
14	Fuzzy modeling via sector nonlinearity concept. Integrated Computer-Aided Engineering, 2003, 10, 333-341.	2.5	67
15	LMI-based fuzzy stability and synchronization of Chen's system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 320, 154-159.	0.9	60
16	Robust synchronization of impulsively-coupled complex switched networks with parametric uncertainties and time-varying delays. Nonlinear Analysis: Real World Applications, 2010, 11, 3008-3020.	0.9	60
17	Stabilization of Polynomial Fuzzy Systems via a Sum of Squares Approach., 2007,,.		54
18	Stability Analysis and Region-of-Attraction Estimation Using Piecewise Polynomial Lyapunov Functions: Polynomial Fuzzy Model Approach. IEEE Transactions on Fuzzy Systems, 2015, 23, 1314-1322.	6.5	52

#	Article	IF	CITATIONS
19	A polynomial-fuzzy-model-based synchronization methodology for the multi-scroll Chen chaotic secure communication system. Engineering Applications of Artificial Intelligence, 2020, 87, 103251.	4.3	46
20	Global synchronization of complex dynamical networks with network failures. International Journal of Robust and Nonlinear Control, 2010, 20, 1667-1677.	2.1	44
21	ON IMPULSIVE CONTROL AND ITS APPLICATION TO CHEN'S CHAOTIC SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1191-1197.	0.7	41
22	Hopf bifurcation control in the XCP for the Internet congestion control system. Nonlinear Analysis: Real World Applications, 2012, 13, 1466-1479.	0.9	39
23	An SOS-Based Control Lyapunov Function Design for Polynomial Fuzzy Control of Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2017, 25, 775-787.	6.5	37
24	Synchronization of Complex Dynamical Networks with Switching Topology via Adaptive Control. , 2006, , .		33
25	Discrete polynomial fuzzy systems control. IET Control Theory and Applications, 2014, 8, 288-296.	1.2	33
26	Containment control for coupled harmonic oscillators with multiple leaders under directed topology. International Journal of Control, 2015, 88, 248-255.	1.2	32
27	Wireless Vision-Based Stabilization of Indoor Microhelicopter. IEEE/ASME Transactions on Mechatronics, 2012, 17, 519-524.	3.7	26
28	Controlling bifurcations and chaos in TCP–UDP–RED. Nonlinear Analysis: Real World Applications, 2010, 11, 1491-1501.	0.9	24
29	A nonmonotonically decreasing relaxation approach of Lyapunov functions to guaranteed cost control for discrete fuzzy systems. IET Control Theory and Applications, 2014, 8, 1716-1722.	1.2	24
30	Sensor Reduction for Backing-Up Control of a Vehicle With Triple Trailers. IEEE Transactions on Industrial Electronics, 2009, 56, 497-509.	5.2	20
31	Stability and Hopf bifurcation analysis in a TCP fluid model. Nonlinear Analysis: Real World Applications, 2011, 12, 353-363.	0.9	18
32	Guaranteed cost control of polynomial fuzzy systems via a sum of squares approach., 2007,,.		17
33	Takagi-Sugeno Fuzzy Model-Based Flight Control and Failure Stabilization. Journal of Guidance, Control, and Dynamics, 2011, 34, 1543-1555.	1.6	17
34	3-D Flight Path Tracking Control for Unmanned Aerial Vehicles Under Wind Environments. IEEE Transactions on Vehicular Technology, 2019, 68, 11621-11634.	3.9	17
35	An SOS-based stable control of polynomial discrete fuzzy systems. , 2008, , .		16
36	Stability Analysis and Bifurcation Control of a Delayed Incommensurate Fractional-Order Gene Regulatory Network. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050089.	0.7	16

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37	Fuzzy model-based servo control for nonlinear systems with input constraint., 2009,,.		15
38	Polynomial fuzzy observer design: A sum of squares approach. , 2009, , .		15
39	Practical Model Construction and Stable Control of an Unmanned Aerial Vehicle With a Parafoil-Type Wing. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1291-1297.	5.9	15
40	IMPULSIVE CONTROL FOR T–S FUZZY SYSTEM AND ITS APPLICATION TO CHAOTIC SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 2417-2423.	0.7	14
41	Fuzzy Modeling and Control of Chaotic Systems. , 2006, , 45-80.		14
42	Development of a Cyclogyro-Based Flying Robot With Variable Attack Angle Mechanisms. IEEE/ASME Transactions on Mechatronics, 2007, 12, 565-570.	3.7	12
43	Impulsive control of bifurcations. Mathematics and Computers in Simulation, 2009, 79, 2180-2191.	2.4	12
44	Synchronization of leaderâ€follower networks with coupling delays via variable structure control. Asian Journal of Control, 2009, 11, 407-410.	1.9	12
45	A Rational Polynomial Tracking Control Approach to a Common System Representation for Unmanned Aerial Vehicles. IEEE/ASME Transactions on Mechatronics, 2020, 25, 919-930.	3.7	11
46	Stability of Internet-Based Control Systems with Uncertainties and Multiple Time-Varying Delays. , 2006, , .		10
47	Development of a Cyclogyro-based Flying Robot with Variable Attack Angle Mechanisms. , 2006, , .		10
48	An SOS-based observer design for polynomial fuzzy systems. , 2011, , .		10
49	Shared Nonlinear Control in Wireless-Based Remote Stabilization: A Theoretical Approach. IEEE/ASME Transactions on Mechatronics, 2012, 17, 443-453.	3.7	10
50	Development of a Flying Robot With a Pantograph-Based Variable Wing Mechanism. IEEE Transactions on Robotics, 2009, 25, 79-87.	7.3	9
51	A Waypoint Following Control Design for a Paraglider Model With Aerodynamic Uncertainty. IEEE/ASME Transactions on Mechatronics, 2018, 23, 518-523.	3.7	9
52	A Novel Path-Following-Method-Based Polynomial Fuzzy Control Design. IEEE Transactions on Cybernetics, 2021, 51, 2993-3003.	6.2	8
53	Dynamic feedback control of bifurcations. , 0, , .		6
54	Fuzzy Observer Design. , 0, , 83-96.		6

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55	Fuzzy Model-based Servo Control for a Class of Nonlinear Systems. , 2007, , .		6
56	Delay independent synchronization of complex network via hybrid control., 2008,,.		6
57	Fuzzy model-based servo control for discrete-time nonlinear systems. , 2008, , .		6
58	Development of an autonomous flying robot and its verification via flight control experiment. , 2013, , .		6
59	Takagi-Sugeno Fuzzy Model and Parallel Distributed Compensation. , 0, , 5-48.		5
60	LMI Control Performance Conditions and Designs. , 0, , 49-82.		5
61	Development of a Flying Robot with Pantograph-based Variable Wing Mechanism. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	5
62	Piecewise Fuzzy Model Construction and Controller Design based on Piecewise Lyapunov Function. Proceedings of the American Control Conference, 2007, , .	0.0	4
63	Switching fuzzy model construction based on optimal dividing planes. , 2009, , .		4
64	Stability analysis for the polynomial fuzzy systems by utilizing equality constraints of sum-of-squares program. , 2010, , .		4
65	Nonconvex stabilization criterion for polynomial fuzzy systems. , 2013, , .		4
66	Stabilization analysis of single-input polynomial fuzzy systems using control Lyapunov functions. , 2014, , .		4
67	Stability Analysis and Bifurcation Control For a Fractional Order SIR Epidemic Model with Delay., 2020, , .		4
68	Impulsive Control of Bifurcation in Nonlinear System. , 2006, , .		3
69	Impulsive Control Bifurcation and Chaos in Internet TCP-RED Congestion Control System., 2007,,.		3
70	Guaranteed cost control of T-S fuzzy systems using piecewise Lyapunov function based switching fuzzy controller., 2009,,.		3
71	Relaxed stabilization conditions of T-S fuzzy systems using piecewise lyapunov function based switching fuzzy controller. , 2009, , .		3
72	Wireless control of a board robot using a sensing glove. , 2014, , .		3

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73	Fuzzy Control of Nonlinear Time-Delay Systems. , 0, , 291-302.		2
74	T-S Fuzzy Model as Universal Approximator. , 0, , 277-289.		2
75	Adaptive Spanning-tree on Changing Topologies: Towards Emergent Behaviors in Autonomous Multi-Agent Systems. Proceedings of the American Control Conference, 2007, , .	0.0	2
76	The Kalman filtering for a class of local strongly coupled systems. , 2011, , .		2
77	Stability analysis and control of bifurcation in a TCP fluid flow model of Wireless Networks. , 2012, , .		2
78	Stability and bifurcation of genetic regulatory networks with delays. , 2014, , .		2
79	A Simple Passive Attitude Stabilizer for Palm-size Aerial Vehicles. IEEE/ASME Transactions on Mechatronics, $2015, 1-1$.	3.7	2
80	Research on path planning of robot based on deep reinforcement learning. , 2020, , .		2
81	Robust Adaptive Control of Nonlinear Output Feedback Systems Under Disturbances With Unknown Bounds. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2004, 126, 229-235.	0.9	2
82	Nonlinear Model Following Control. , 0, , 217-228.		1
83	New Stability Conditions and Dynamic Feedback Designs. , 0, , 229-257.		1
84	Robust-Optimal Fuzzy Control. , 0, , 121-131.		1
85	Construction of simulation model of a flying robot with variable attack angle mechanism., 2007,,.		1
86	Stabilization of complex switched networks with two types of delays via impulsive control., 2009,,.		1
87	Improvement of simulation model and development of control mechanism of force direction for a flying robot with cyclogyro wing. , 2009, , .		1
88	Robust stabilization of uncertain complex singular dynamical networks via impulsive control. , 2009, , .		1
89	Robust synchronization of impulsively-coupled complex dynamical networks with parametric uncertainties and delays., 2009,,.		1
90	Consensus of multi-agent system with communication delays by self-delay PD control. , 2010, , .		1

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91	Stability analysis and impulsive control of bifurcation and chaos in fluid flow model for TCP/AQM networks. , 2010, , .		1
92	Fuzzy model-based servo control with constraints on both of inputs and states. , 2010, , .		1
93	Stability analysis of nonlinear systems via multiple mixed max-min based Lyapunov functions. , 2010, , .		1
94	An improved approach to fuzzy model construction and servo control with constraints based on error dynamics. , $2011, \ldots$		1
95	Distributed filtering basing consensus for the local strongly coupled systems. , 2012, , .		1
96	A Takagi-Sugeno fuzzy model approach to vision-based control of a micro helicopter. , 2012, , .		1
97	A descriptor system approach to servo control for nonlinear systems. , 2012, , .		1
98	Stability and stabilization conditions for Takagi-Sugeno fuzzy model via polyhedral Lyapunov functions. , 2013, , .		1
99	Stability region analysis for polynomial fuzzy systems by polynomial Lyapunov functions. , 2014, , .		1
100	The evolutionary ultimatum game on multiplex networks. , 2016, , .		1
101	A Practical SSVEP-Based Algorithm for Perceptual Dominance Estimation in Binocular Rivalry. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 476-482.	2.6	1
102	Stability Analysis and Hopf Bifurcation Control for a Wireless Network Model. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2016, 20, 212-222.	0.5	1
103	Optimal Fuzzy Control. , 0, , 109-120.		0
104	Fuzzy Modeling and Control of Chaotic Systems., 0,, 153-193.		0
105	Fuzzy Descriptor Systems and Control. , 0, , 195-215.		0
106	Multiobjective Control via Dynamic Parallel Distributed Compensation., 0,, 259-275.		0
107	Robust Fuzzy Control. , 0, , 97-108.		0
108	Trajectory Control of a Vehicle with Multiple Trailers. , 0, , 133-152.		0

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109	Wiener-Typed Nonlinear Systems' Output Feedback Control Algorithm Based on Dual-Mode Method. , 2006, , .		0
110	Control of Bifurcations and Chaos in Small-World Networks. Proceedings of the American Control Conference, 2007, , .	0.0	0
111	Stochastic controlling tolerable fault of Network Control Systems. , 2008, , .		0
112	Fuzzy Model-based Model Following Control for a Class of Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 6850-6854.	0.4	0
113	Improved controller design for switching fuzzy model-based control. , 2009, , .		0
114	$\label{thm:local-control} H\< inf\> \& amp; \#x221E; \& lt; / inf\> control of T-S \ fuzzy \ systems \ using \ piecewise \ Lyapunov \ function \ based \ switching \ fuzzy \ controller. \ , 2009, \ , \ .$		0
115	Passive synchronization of complex spatio-temporal switching networks with coupling delays. , 2009, , .		0
116	Delay-dependent stability of discrete-time complex networks with mode-dependent uncertain parameters and time delays., 2009,,.		0
117	Analysis and control of bifurcation in TCP fluid model. , 2010, , .		0
118	Robust filtering for networked systems with random transmission delays and packet dropouts. , 2011, , .		0
119	Piecewise polynomial lyapunov functions based stability analysis for polynomial fuzzy systems. , 2013, , .		0
120	Design and application of consensus-based filtering for Local Strongly Coupled & Design and Stro		0
121	Stability and Neimark-Sacker Bifurcation Analysis for Single Gene Discrete System with Delay. , 2018, , .		0
122	Impulsive Synchronization of Fractional-order Delayed Gene Regulatory Network Based on Comparative System Method., 2020,,.		0