Wu-Hua Chen

List of Publications by Year
in descending order

128 papers	4,544 citations	94433 37 h-index	106344 65 g-index
128 all docs	128 docs citations	128 times ranked	1857 citing authors

#	Article	IF	Citations
1	Delay-dependent robust stabilization for uncertain neutral systems with distributed delays. Automatica, 2007, 43, 95-104.	5.0	250
2	Delay-dependent exponential stability of uncertain stochastic systems with multiple delays: an LMI approach. Systems and Control Letters, 2005, 54, 547-555.	2.3	242
3	Impulsive Synchronization of Reactionâ€"Diffusion Neural Networks With Mixed Delays and Its Application to Image Encryption. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2696-2710.	11.3	204
4	Exponential stability of nonlinear time-delay systems with delayed impulse effects. Automatica, 2011, 47, 1075-1083.	5.0	201
5	Input-to-state stability and integral input-to-state stability of nonlinear impulsive systems with delays. Automatica, 2009, 45, 1481-1488.	5.0	186
6	Guaranteed cost control for uncertain markovian jump systems with mode-dependent time-delays. IEEE Transactions on Automatic Control, 2003, 48, 2270-2276.	5.7	170
7	Impulsive Stabilization and Impulsive Synchronization of Discrete-Time Delayed Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 734-748.	11.3	158
8	Mean square exponential stability of uncertain stochastic delayed neural networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1061-1069.	2.1	141
9	Delay-dependent output feedback guaranteed cost control for uncertain time-delay systems. Automatica, 2004, 40, 1263-1268.	5.0	108
10	Input-to-state stability for networked control systems via an improved impulsive system approach. Automatica, 2011, 47, 789-796.	5.0	107
11	Delay-independent stabilization of a class of time-delay systems via periodically intermittent control. Automatica, 2016, 71, 89-97.	5.0	92
12	On Sampled-Data Control for Master-Slave Synchronization of Chaotic Lur'e Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2012, 59, 515-519.	3.0	90
13	Robust stability and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>âˆž</mml:mi></mml:mrow></mml:mrow> of uncertain impulsive systems with time-delay. Automatica, 2009, 45, 109-117.	5.0	89
14	Global exponential synchronization of nonlinear time-delay Lurâ€™e systems via delayed impulsive control. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 3298-3312.	3.3	89
15	Delay-dependent guaranteed cost control for uncertain discrete-time systems with both state and input delays. Journal of the Franklin Institute, 2004, 341, 419-430.	3.4	88
16	Global Exponential Stability of Impulsive Neural Networks With Variable Delay: An LMI Approach. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 1248-1259.	5.4	86
17	Delay-Independent Minimum Dwell Time for Exponential Stability of Uncertain Switched Delay Systems. IEEE Transactions on Automatic Control, 2010, 55, 2406-2413.	5.7	85
18	An Improved Stabilization Method for Sampled-Data Control Systems With Control Packet Loss. IEEE Transactions on Automatic Control, 2012, 57, 2378-2384.	5.7	82

#	Article	IF	Citations
19	Delay-Dependent Stochastic Stability and H_{∞}-Control of Uncertain Neutral Stochastic Systems With Time Delay. IEEE Transactions on Automatic Control, 2009, 54, 1660-1667.	5.7	79
20	H_{∞} synchronization for complex dynamical networks with coupling delays using distributed impulsive control. Nonlinear Analysis: Hybrid Systems, 2015, 17, 111-127.	3.5	76
21	Stability and L_2 analysis for impulsive delay systems: An impulse-time-dependent discretized Lyapunov functional method. Automatica, 2017, 86, 129-137.	5.0	76
22	Improved Delay-Dependent Asymptotic Stability Criteria for Delayed Neural Networks. IEEE Transactions on Neural Networks, 2008, 19, 2154-2161.	4.2	72
23	Global exponential stability for discrete-time neural networks with variable delays. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 358, 186-198.	2.1	70
24	Delayed Impulsive Control of Takagi–Sugeno Fuzzy Delay Systems. IEEE Transactions on Fuzzy Systems, 2013, 21, 516-526.	9.8	67
25	On improved robust stabilization of uncertain systems with unknown input delay. Automatica, 2006, 42, 1067-1072.	5.0	64
26	Impulsive observers with variable update intervals for Lipschitz nonlinear time-delay systems. International Journal of Systems Science, 2013, 44, 1934-1947.	5.5	56
27	Impulsive stabilization of a class of singular systems with time-delays. Automatica, 2017, 83, 28-36.	5.0	54
28	Impulsive observer–based stabilisation of uncertain linear systems. IET Control Theory and Applications, 2014, 8, 149-159.	2.1	53
29	Global asymptotic stability of a class of neural networks with distributed delays. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 644-652.	0.1	52
30	Adaptive impulsive observers for nonlinear systems: Revisited. Automatica, 2015, 61, 232-240.	5.0	48
31	Generating Globally Stable Periodic Solutions of Delayed Neural Networks With Periodic Coefficients via Impulsive Control. IEEE Transactions on Cybernetics, 2017, 47, 1590-1603.	9.5	45
32	A New Method for Complete Stability Analysis of Cellular Neural Networks With Time Delay. IEEE Transactions on Neural Networks, 2010, 21, 1126-1139.	4.2	44
33	Robust H_{∞} control of uncertain linear impulsive stochastic systems. International Journal of Robust and Nonlinear Control, 2008, 18, 1348-1371.	3.7	42
34	Dynamic event-triggered control for linear stochastic systems with sporadic measurements and communication delays. Automatica, 2019, 107, 86-94.	5.0	42
35	Stability and L_2-Gain Analysis for Linear Time-Delay Systems With Delayed Impulses: An Augmentation-Based Switching Impulse Approach. IEEE Transactions on Automatic Control, 2019, 64, 4209-4216.	5.7	42
36	Intermittent synchronization of reaction–diffusion neural networks with mixed delays via Razumikhin technique. Nonlinear Dynamics, 2017, 87, 535-551.	5.2	41

#	Article	IF	Citations
37	Robust Stability Analysis for Stochastic Neural Networks With Time-Varying Delay. IEEE Transactions on Neural Networks, 2010, 21, 508-514.	4.2	40
38	Aperiodically intermittent H âˆž synchronization for a class of reaction-diffusion neural networks. Neurocomputing, 2017, 222, 105-115.	5.9	39
39	Sampled-data distributed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0007.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mo>âˆž</mml:mo></mml:mrow></mml:msub></mml:math> control of a class of 1-D parabolic systems under spatially point measurements. Journal of the Franklin Institute, 2017, 354, 197-214.	3.4	37
40	Delay-dependent exponential stability of neural networks with variable delays. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 326, 355-363.	2.1	35
41	On designing decentralized impulsive controllers for synchronization of complex dynamical networks with nonidentical nodes and coupling delays. Journal of the Franklin Institute, 2014, 351, 4084-4110.	3.4	35
42	Synchronization Analysis of Two-Time-Scale Nonlinear Complex Networks With Time-Scale-Dependent Coupling. IEEE Transactions on Cybernetics, 2019, 49, 3255-3267.	9.5	34
43	Periodically Intermittent Stabilization of Delayed Neural Networks Based on Piecewise Lyapunov Functions/Functionals. Circuits, Systems, and Signal Processing, 2014, 33, 3757-3782.	2.0	33
44	Unified dwell timeâ€"based stability and stabilization criteria for switched linear stochastic systems and their application to intermittent control. International Journal of Robust and Nonlinear Control, 2018, 28, 2014-2030.	3.7	32
45	Impulsive functional observers for linear systems. International Journal of Control, Automation and Systems, 2011, 9, 987-992.	2.7	31
46	Robust Stability of Singularly Perturbed Impulsive Systems Under Nonlinear Perturbation. IEEE Transactions on Automatic Control, 2013, 58, 168-174.	5.7	30
47	control of linear singular timeâ€delay systems subject to impulsive perturbations. IET Control Theory and Applications, 2017, 11, 420-428.	2.1	29
48	Delay-dependent stability and stabilizability of uncertain jump bilinear stochastic systems with mode-dependent time-delays. International Journal of Systems Science, 2005, 36, 275-285.	5.5	27
49	Sliding-Mode Control for Linear Uncertain Systems With Impulse Effects via Switching Gains. IEEE Transactions on Automatic Control, 2022, 67, 2044-2051.	5.7	27
50	Multistability in a class of stochastic delayed Hopfield neural networks. Neural Networks, 2015, 68, 52-61.	5.9	26
51	Disturbance-observer-based control design for a class of uncertain systems with intermittent measurement. Journal of the Franklin Institute, 2017, 354, 5266-5279.	3.4	26
52	Delay-dependent stability and hybrid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e627" altimg="si5.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow><mml:mrow linebreak="goodbreak" linebreakstyle="after">Ã—</mml:mo><mml:msub><mml:mrow><mml:mi>l</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mn></mml:math> analysis of linear impulsive time-delay systems: A continuous timer-depen. Automatica, 2020, 120, 109119.	5.0	26
53	Impulsive synchronization of chaotic Lur'e systems via partial states. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4210-4216.	2.1	25
54	Exponential stability and exponential stabilization of singularly perturbed stochastic systems with time-varying delay. International Journal of Robust and Nonlinear Control, 2010, 20, 2021-2044.	3.7	24

#	Article	IF	Citations
55	Impulsive positive observers and dynamic output feedback stabilization of positive linear continuous systems. International Journal of Robust and Nonlinear Control, 2017, 27, 2275-2291.	3.7	24
56	On Global Asymptotic Stability of Cohenâ€"Grossberg Neural Networks With Variable Delays. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 3145-3159.	5.4	22
57	Exponential stability of a class of nonlinear singularly perturbed systems with delayed impulses. Journal of the Franklin Institute, 2013, 350, 2678-2709.	3.4	22
58	Stability and stabilization of linear impulsive systems with large impulse-delays: A stabilizing delay perspective. Automatica, 2021, 127, 109533.	5.0	22
59	Robust fuzzy stabilization of nonlinear time-delay systems subject to impulsive perturbations. Communications in Nonlinear Science and Numerical Simulation, 2020, 80, 104953.	3.3	20
60	Globally exponential stabilization of neural networks with mixed time delays via impulsive control. Applied Mathematics and Computation, 2015, 260, 10-26.	2.2	19
61	Robust sampled-data H_∞ control of uncertain singularly perturbed systems using time-dependent Lyapunov functionals. International Journal of Systems Science, 2015, 46, 2832-2852.	5.5	18
62	Impulsive H_∞ synchronization for reactionâ€"diffusion neural networks with mixed delays. Neurocomputing, 2018, 272, 481-494.	5.9	18
63	Exponential stability of a class of singularly perturbed stochastic time-delay systems with impulse effect. Nonlinear Analysis: Real World Applications, 2010, 11, 3463-3478.	1.7	17
64	Multiple switching-time-dependent discretized Lyapunov functions/functionals methods for stability analysis of switched time-delay stochastic systems. Journal of the Franklin Institute, 2018, 355, 949-964.	3.4	17
65	A new method for global stability analysis of delayed reactionâ€"diffusion neural networks. Neurocomputing, 2018, 317, 127-136.	5.9	17
66	New delay-dependent exponential stability criteria for neural networks with variable delays. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 351, 53-58.	2.1	16
67	A revisit to the design of switched observers for switched linear systems with unknown inputs. International Journal of Control, Automation and Systems, 2014, 12, 954-962.	2.7	16
68	Dissipativity of Singularly Perturbed Lurâ€™e Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1532-1536.	3.0	16
69	Modulus consensus in a network of singularly perturbed systems with collaborative and antagonistic interactions. International Journal of Control, 2017, 90, 2667-2676.	1.9	15
70	Robust stabilization of delayed Markovian jump systems subject to parametric uncertainties. , 2007, , .		13
71	Global exponential stability of a class of impulsive neural networks with unstable continuous and discrete dynamics. Neurocomputing, 2015, 147, 225-234.	5.9	12
72	Proportionalâ€"Integral Observer-Based State Estimation for Singularly Perturbed Complex Networks With Cyberattacks. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9795-9805.	11.3	12

#	Article	IF	Citations
73	Impulsive synchronization of two coupled delayed reaction–diffusion neural networks using time-varying impulsive gains. Neurocomputing, 2020, 377, 334-344.	5.9	11
74	Multi-rate sampled-data composite control of linear singularly perturbed systems. Journal of the Franklin Institute, 2020, 357, 2028-2048.	3.4	11
75	Impulsive stabilization for linear neutral–type time–delay systems. International Journal of Robust and Nonlinear Control, 2018, 28, 5618-5633.	3.7	10
76	Hierarchical Hybrid Control for Scaled Consensus and Its Application to Secondary Control for DC Microgrid. IEEE Transactions on Cybernetics, 2023, 53, 4446-4458.	9.5	10
77	Fuzzy controller synthesis for nonlinear neutral state-delayed systems with impulsive effects. Information Sciences, 2021, 555, 293-313.	6.9	9
78	A refined discretized timer-dependent Lyapunov functional for impulsive delay systems. Automatica, 2021, 134, 109929.	5.0	9
79	Impulsive average-consensus of multi-agent systems with time-delays. Journal of the Franklin Institute, 2022, 359, 1544-1568.	3.4	9
80	Pointwise-in-space stabilization and synchronization of a class of reaction–diffusion systems with mixed time delays via aperiodically impulsive control. Nonlinear Dynamics, 2017, 88, 2899-2914.	5.2	8
81	Instability and Unboundedness Analysis for Impulsive Differential Systems with Applications to Lurie Control Systems. International Journal of Control, Automation and Systems, 2018, 16, 1521-1531.	2.7	8
82	Observer-based feedback stabilization of Lipschitz nonlinear systems in the presence of asynchronous sampling and scheduling protocols. Nonlinear Analysis: Hybrid Systems, 2019, 33, 282-299.	3.5	8
83	Impulsive observer-based design for state estimation of a class of nonlinear singularly perturbed systems with discrete measurements. Nonlinear Analysis: Hybrid Systems, 2021, 41, 101027.	3.5	8
84	New stability criteria for linear impulsive systems with interval impulse-delay. Journal of the Franklin Institute, 2021, 358, 6775-6797.	3.4	8
85	Effects of impulse delays on L-stability of a class of nonlinear time-delay systems. Journal of the Franklin Institute, 2020, 357, 7983-8007.	3.4	7
86	Guaranteed cost control of linear uncertain discrete-time impulsive systems. Transactions of the Institute of Measurement and Control, 2015, 37, 33-39.	1.7	6
87	Dual-stage periodic event-triggered output-feedback control for linear systems. ISA Transactions, 2018, 76, 57-66.	5.7	6
88	Stabilization of discrete-time switched linear systems with time-varying delays via nearly-periodic impulsive control. Journal of the Franklin Institute, 2019, 356, 8996-9022.	3.4	6
89	Comments on "Designing a Novel Adaptive Impulsive Observer for Nonlinear Continuous Systems Using LMIs". IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1094-1096.	5.4	5
90	Periodically intermittent sampled-data control of a class of diffusion neural networks. , 2015, , .		5

#	Article	IF	Citations
91	Slow state estimation for singularly perturbed systems with discrete measurements. Science China Information Sciences, 2021, 64, 1.	4.3	5
92	Dwell‑time‑dependent conditions for exponential stability and hybrid L 2 ‰Ã—‰ l 2 gain of linear neutral time‑delay systems with impulsive effects. International Journal of Robust and Nonlinear Control, 2021, 31, 4782-4804.	3.7	4
93	Asymptotic Stability in a Neutral Delay Differential System with Variable Delays. SIAM Journal on Mathematical Analysis, 2006, 37, 1522-1534.	1.9	3
94	Stability analysis for Cohen-Grossberg neural networks with time-varying delays. , 0, , .		3
95	Impulsive natural observers for vector second‑order Lipschitz non‑linear systems. IET Control Theory and Applications, 2018, 12, 1349-1356.	2.1	3
96	Stability Analysis and H_{∞}-Control of Delayed Neutral Stochastic Systems with Time-Varying Parameter Uncertainties. , 2006, , .		2
97	Stability analysis for switched systems with time-varying delay and parametric uncertainties. , 2010, , .		2
98	Exponential stability of a class of linear time-varying singularly perturbed systems. , 2011, , .		2
99	The Effect of Delayed Impulses on Stability of Impulsive Time-Delay Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6307-6312.	0.4	2
100	Stochastic Finite-Time Stabilization for a Class of Nonlinear Markovian Jump Stochastic Systems With Impulsive Effects. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	2
101	Impulsive stabilization of periodic solutions of recurrent neural networks with discrete and distributed delays. , 2016, , .		2
102	Disturbance observer-based control design for a class of nonlinear stochastic systems with periodically intermittent measurement. , 2017, , .		2
103	Distributed hybrid secondary control strategy for DC microgrid group based on multi-agent system. , 2021, , .		2
104	A study of complete stability for delayed cellular neural networks. , 0, , .		1
105	On periodically intermittent stabilization of stochastic delayed neural networks. , 2015, , .		1
106	Bipartite consensus for multiple two-time scales agents over the signed digraph. , 2016, , .		1
107	Stability Analysis for Dynamical Neural Networks with Distributed Delays. , 0, , .		0
108	On Robust Stabilization of Uncertain Delay Differential Systems of Neutral Type. , 2006, , .		0

#	Article	IF	Citations
109	A Delay-Dependent Exponential Stability Criterion for Delayed Neural Networks. , 2007, , .		0
110	Stability analysis of dynamical neural networks with uncertain delays. , 2008, , .		0
111	On robust stabilization of delayed impulsive systems subject to parametric uncertainties. , 2008, , .		0
112	Razumikhin-type theorems for ISS of nonlinear delayed impulsive systems. , 2008, , .		0
113	Stability analysis for time-delay systems with partial states subject to impulsive inputs. , 2009, , .		0
114	Robust Impulsive Guaranteed Cost Control of Uncertain Chaotic Lur'e Systems. , 2010, , .		0
115	Robust H8 Filtering for a Class of Uncertain Impulsive Systems. , 2010, , .		0
116	A study of exponential stability for stochastic delayed neural networks. , 2010, , .		0
117	A new method for H<inf>∞</inf> performance analysis and control of networked control systems. , 2010, , .		0
118	A Lyapunov functional approach to impulsive control of Takagi-Sugeno fuzzy delay systems. , 2012, , .		0
119	Mean square exponential stability of uncertain linear impulsive stochastic systems with Markovian switching. , 2013, , .		0
120	Impulsive synchronization for uncertain delayed complex dynamical networks with minimal coupling strength. , 2014, , .		0
121	Global exponential stabilization of neural networks with time delay via impulsive control. , 2014, , .		0
122	A new approach to adaptive impulsive observer design for nonlinear systems. , 2015, , .		0
123	Stability and stabilization of discrete-time linear systems with nearly-periodic impulses. , 2015, , .		0
124	Periodically intermittent H_{â^ž} control for a class of nonlinear systems. , 2016, , .		0
125	Global synchronization of delayed reaction-diffusion neural networks via impulsive control. , 2016, , .		0
126	On stabilization of delayed linear singular systems via impulsive control. , 2017, , .		0

#	Article	IF	Citations
127	Passivity of Reaction-Diffusion Neural Networks Via Sampled-Data Control. , 2019, , .		0
128	Globally exponential stabilization of a class of uncertain time delay systems via periodically intermittent control. Mathematical Methods in the Applied Sciences, 0, , .	2.3	0