

# Chuan-Ke Zhang

## List of Publications by Year in descending order

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89  
papers

5,200  
citations

94433

37  
h-index

85541

71  
g-index

89  
all docs

89  
docs citations

89  
times ranked

1885  
citing authors

#	ARTICLE	IF	CITATIONS
1	An extended reciprocally convex matrix inequality for stability analysis of systems with time-varying delay. <i>Automatica</i> , 2017, 85, 481-485.	5.0	353
2	Delay-Dependent Robust Load Frequency Control for Time Delay Power Systems. <i>IEEE Transactions on Power Systems</i> , 2013, 28, 2192-2201.	6.5	294
3	Stability analysis of systems with time-varying delay via relaxed integral inequalities. <i>Systems and Control Letters</i> , 2016, 92, 52-61.	2.3	258
4	Notes on Stability of Time-Delay Systems: Bounding Inequalities and Augmented Lyapunov-Krasovskii Functionals. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 5331-5336.	5.7	247
5	Stability Analysis of Discrete-Time Neural Networks With Time-Varying Delay via an Extended Reciprocally Convex Matrix Inequality. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 3040-3049.	9.5	213
6	Stability Analysis for Delayed Neural Networks Considering Both Conservativeness and Complexity. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016, 27, 1486-1501.	11.3	207
7	Delay-Dependent Stability Criteria for Generalized Neural Networks With Two Delay Components. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014, 25, 1263-1276.	11.3	206
8	Delay-dependent stability analysis of neural networks with time-varying delay: A generalized free-weighting-matrix approach. <i>Applied Mathematics and Computation</i> , 2017, 294, 102-120.	2.2	199
9	A relaxed quadratic function negative-determination lemma and its application to time-delay systems. <i>Automatica</i> , 2020, 113, 108764.	5.0	194
10	Further Results on Delay-Dependent Stability of Multi-Area Load Frequency Control. <i>IEEE Transactions on Power Systems</i> , 2013, 28, 4465-4474.	6.5	174
11	Global exponential stability of neural networks with time-varying delay based on free-matrix-based integral inequality. <i>Neural Networks</i> , 2016, 77, 80-86.	5.9	152
12	Delay-Variation-Dependent Stability of Delayed Discrete-Time Systems. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 2663-2669.	5.7	151
13	Robust Load Frequency Control for Power System Considering Transmission Delay and Sampling Period. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 5292-5303.	11.3	129
14	Design of robust MPPT controller for grid-connected PMSG-Based wind turbine via perturbation observation based nonlinear adaptive control. <i>Renewable Energy</i> , 2019, 134, 478-495.	8.9	128
15	Exponential synchronization of neural networks with time-varying mixed delays and sampled-data. <i>Neurocomputing</i> , 2010, 74, 265-273.	5.9	125
16	An improved summation inequality to discrete-time systems with time-varying delay. <i>Automatica</i> , 2016, 74, 10-15.	5.0	111
17	Delay-Dependent Stability Analysis of Multi-Area Load Frequency Control With Enhanced Accuracy and Computation Efficiency. <i>IEEE Transactions on Power Systems</i> , 2019, 34, 3687-3696.	6.5	106
18	Robust $H_{\infty}$ Control for T $\infty$ S Fuzzy Systems With State and Input Time-Varying Delays via Delay-Product-Type Functional Method. <i>IEEE Transactions on Fuzzy Systems</i> , 2019, 27, 1917-1930.	9.8	99

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19	Control Performance Standards-Oriented Event-Triggered Load Frequency Control for Power Systems Under Limited Communication Bandwidth. IEEE Transactions on Control Systems Technology, 2022, 30, 860-868.	5.2	97
20	Stability and Stabilization of Tâ€“S Fuzzy Systems With Time-Varying Delays via Delay-Product-Type Functional Method. IEEE Transactions on Cybernetics, 2020, 50, 2580-2589.	9.5	91
21	Extended Dissipativity Analysis for Markovian Jump Neural Networks With Time-Varying Delay via Delay-Product-Type Functionals. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2528-2537.	11.3	84
22	Further results on exponential stability of neural networks with time-varying delay. Applied Mathematics and Computation, 2015, 256, 175-182.	2.2	81
23	Improved Global Asymptotical Synchronization of Chaotic Lur'e Systems With Sampled-Data Control. IEEE Transactions on Circuits and Systems II: Express Briefs, 2009, 56, 320-324.	3.0	78
24	Novel stability criteria for recurrent neural networks with time-varying delay. Neurocomputing, 2014, 138, 383-391.	5.9	72
25	Asymptotical synchronization for chaotic Lurâ€™e systems using sampled-data control. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 2743-2751.	3.3	62
26	Stability analysis for control systems with aperiodically sampled data using an augmented Lyapunov functional method. IET Control Theory and Applications, 2013, 7, 1219-1226.	2.1	61
27	Summation Inequalities to Bounded Real Lemmas of Discrete-Time Systems With Time-Varying Delay. IEEE Transactions on Automatic Control, 2017, 62, 2582-2588.	5.7	61
28	Frequency regulation of multi-area power systems with plug-in electric vehicles considering communication delays. IET Generation, Transmission and Distribution, 2016, 10, 3481-3491.	2.5	59
29	Stability analysis of neural networks with time-varying delay: Enhanced stability criteria and conservatism comparisons. Communications in Nonlinear Science and Numerical Simulation, 2018, 54, 118-135.	3.3	58
30	Stability Analysis of Systems With Time-Varying Delay via Improved Lyapunovâ€™Krasovskii Functionals. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2457-2466.	9.3	57
31	Stability analysis of linear systems with two additive time-varying delays via delay-product-type Lyapunov functional. Applied Mathematical Modelling, 2017, 45, 955-964.	4.2	54
32	Further robust stability analysis for uncertain Takagiâ€™Sugeno fuzzy systems with time-varying delay via relaxed integral inequality. Information Sciences, 2017, 409-410, 139-150.	6.9	54
33	Stability analysis for T-S fuzzy systems with time-varying delay via free-matrix-based integral inequality. International Journal of Control, Automation and Systems, 2016, 14, 21-28.	2.7	48
34	ADMM-Based Multiperiod Optimal Power Flow Considering Plug-In Electric Vehicles Charging. IEEE Transactions on Power Systems, 2018, 33, 3886-3897.	6.5	43
35	Stochastic Finite-Time H <sub>2</sub> State Estimation for Discrete-Time Semi-Markovian Jump Neural Networks With Time-Varying Delays. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 5456-5467.	11.3	43
36	Switching system-based load frequency control for multi-area power system resilient to denial-of-service attacks. Control Engineering Practice, 2021, 107, 104678.	5.5	42

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37	Stability analysis of sampled-data systems considering time delays and its application to electric power markets. <i>Journal of the Franklin Institute</i> , 2014, 351, 4457-4478.	3.4	40
38	Robust Load Frequency Control with Dynamic Demand Response for Deregulated Power Systems Considering Communication Delays. <i>Electric Power Components and Systems</i> , 2017, 45, 75-87.	1.8	36
39	Resilient Load Frequency Control of Power Systems to Compensate Random Time Delays and Time-Delay Attacks. <i>IEEE Transactions on Industrial Electronics</i> , 2023, 70, 5115-5128.	7.9	36
40	Stability analysis of Lurê™ systems with additive delay components via a relaxed matrix inequality. <i>Applied Mathematics and Computation</i> , 2018, 328, 224-242.	2.2	35
41	Robust Delay-Dependent Load Frequency Control of Wind Power System Based on a Novel Reconstructed Model. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 7825-7836.	9.5	35
42	Robust stabilization and controllers design for stochastic genetic regulatory networks with time-varying delays and structured uncertainties. <i>Mathematical Biosciences</i> , 2012, 236, 53-63.	1.9	34
43	Passive control design for multi-terminal VSC-HVDC systems via energy shaping. <i>International Journal of Electrical Power and Energy Systems</i> , 2018, 98, 496-508.	5.5	33
44	Reachable Set Estimation for Discrete-Time Markovian Jump Neural Networks With Generally Incomplete Transition Probabilities. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 1311-1321.	9.5	32
45	Stability analysis of recurrent neural networks with interval time-varying delay via free-matrix-based integral inequality. <i>Neurocomputing</i> , 2016, 205, 490-497.	5.9	31
46	Improved negativity condition for a quadratic function and its application to systems with time-varying delay. <i>IET Control Theory and Applications</i> , 2020, 14, 2989-2993.	2.1	28
47	Exponential stabilization of neural networks with time-varying delay by periodically intermittent control. <i>Neurocomputing</i> , 2016, 207, 469-475.	5.9	27
48	Novel Structure-Exploiting Techniques Based Delay-Dependent Stability Analysis of Multi-Area LFC With Improved Numerical Tractability. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 4194-4211.	6.5	25
49	Structure-Exploiting Delay-Dependent Stability Analysis Applied to Power System Load Frequency Control. <i>IEEE Transactions on Power Systems</i> , 2017, 32, 4528-4540.	6.5	24
50	Dissipativity analysis for neural networks with two-delay components using an extended reciprocally convex matrix inequality. <i>Information Sciences</i> , 2018, 450, 169-181.	6.9	24
51	Event-Triggered Fault Detection Filter Design for Discrete-Time Memristive Neural Networks With Time Delays. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 3359-3369.	9.5	24
52	A sufficient negative-definiteness condition for cubic functions and application to time-delay systems. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 7361-7371.	3.7	24
53	Stability Analysis for Delayed Neural Networks via a Novel Negative-Definiteness Determination Method. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 5356-5366.	9.5	22
54	Active disturbance rejection for time-varying state-delay systems based on equivalent-input-disturbance approach. <i>ISA Transactions</i> , 2021, 108, 69-77.	5.7	21

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55	Exponential Synchronization of Memristor-Based Competitive Neural Networks With Reaction-Diffusions and Infinite Distributed Delays. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2024, 35, 745-758.	11.3	17
56	Load frequency control of time-delayed power system based on event-triggered communication scheme. <i>Applied Energy</i> , 2022, 308, 118294.	10.1	15
57	Hybrid variables-dependent event-triggered model predictive control subject to polytopic uncertainties. <i>International Journal of Systems Science</i> , 2022, 53, 3042-3055.	5.5	14
58	An Improved Stability Criterion for Digital Filters With Generalized Overflow Arithmetic and Time-Varying Delay. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2020, 67, 2099-2103.	3.0	10
59	Quantifying Resilience of Wide-Area Damping Control Against Cyber Attack Based on Switching System Theory. <i>IEEE Transactions on Smart Grid</i> , 2022, 13, 2331-2343.	9.0	10
60	Hierarchical Passivity Criterion for Delayed Neural Networks via A General Delay-Product-Type Lyapunov-Krasovskii Functional. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2023, 34, 421-432.	11.3	9
61	Hybrid Adjusting Variables-Dependent Event-Based Finite-Time State Estimation for Two-Time-Scale Markov Jump Complex Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2024, 35, 1487-1500.	11.3	9
62	New exponential stability criterion for neural networks with time-varying delay. , 2014, , .		8
63	Stability Analysis of Continuous-Time Switched Neural Networks With Time-Varying Delay Based on Admissible Edge-Dependent Average Dwell Time. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 5108-5117.	11.3	8
64	Stability Analysis of Load Frequency Control for Shipboard Microgrids With Occasional Large Delays. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022, 69, 2161-2165.	3.0	8
65	Equivalent input disturbance-based load frequency control for smart grid with air conditioning loads. <i>Science China Information Sciences</i> , 2022, 65, 1.	4.3	8
66	Discrete-State Decomposition Technique of Dissipativity Analysis for Discrete-Time Singular Systems With Time-Varying Delays. <i>IEEE Transactions on Cybernetics</i> , 2023, 53, 5459-5468.	9.5	8
67	Periodic event-triggered control with multisource disturbances and quantized states. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 5404-5426.	3.7	7
68	Mixed-Delay-Based Augmented Functional for Sampled-Data Synchronization of Delayed Neural Networks With Communication Delay. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2024, 35, 1847-1856.	11.3	7
69	Coordinated design of delay-dependent wide-area damping controllers considering multiple time delays. <i>IET Generation, Transmission and Distribution</i> , 2021, 15, 1996-2007.	2.5	6
70	An efficient model for robust load frequency control in multi-area power systems with communication delays. <i>Control Engineering Practice</i> , 2021, 117, 104954.	5.5	6
71	Improved state estimation for Markovian jumping systems with time delay and partial information on transition probabilities. <i>Optimal Control Applications and Methods</i> , 2017, 38, 75-87.	2.1	5
72	Identification of Moment of Inertia for PMSM Using Improved Modelreference Adaptive System. <i>International Journal of Control, Automation and Systems</i> , 2022, 20, 13-23.	2.7	5

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73	Design and validation of feedback controller for social motor coordination with time-varying delays. Control Engineering Practice, 2021, 109, 104756.	5.5	3
74	Type-Dependent Average Dwell Time Method and Its Application to Delayed Neural Networks With Large Delays. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 2875-2880.	11.3	3
75	Nonlinear adaptive power control for DFIG-based wind turbine under unbalanced network conditions. , 2016, , .		2
76	Novel stability criterion for neural network swith time-varying delay via free-matrix-based integral inequality. , 2016, , .		2
77	New method for stability of systems with time-varying delay via improved free-matrix-based integral inequality * *This work was supported in part by the National Natural Science Foundation of China under Grants 61573325 and 61210011, by the Hubei Provincial Natural Science Foundation of China under Grant 2015CFA010, and by the 111 project under Grant B17040.. IFAC-PapersOnLine, 2017, 50, 1281-1285.	0.9	2
78	Switching Method Based Load Frequency Control for Power System with Energy-Limited DoS Attacks. IFAC-PapersOnLine, 2020, 53, 13508-13513.	0.9	2
79	A Novel Augmented Lyapunov Functional for the Stability Analysis of Delayed Neural Networks. , 2018, , .		1
80	An improved synchronization criterion for chaotic Lurâ€™e systems with sampled-data control. , 2019, , .		1
81	Robust exponential load frequency control for time delay power system considering wind power. IFAC-PapersOnLine, 2020, 53, 12536-12541.	0.9	1
82	Stability Analysis of Haptic Systems With Time-Varying Delay via a Delay-Product-Type Lyapunovâ€™Krasovskii Functional. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 4339-4343.	3.0	1
83	Stability analysis of load frequency control systems with two delays in each area. , 2017, , .		0
84	Stability Analysis of Discrete T-S Fuzzy Systems with Time-Varying Delay Using an Extended Reciprocally Convex Matrix Inequality. , 2018, , .		0
85	Stability Analysis of Nonlinear Teleoperation Systems With Time-Varying Delays Via A Delay-Product-Type Functional. , 2019, , .		0
86	Stability Analysis and $H_{\infty}$ Control of Time-Delay Systems. Studies in Systems, Decision and Control, 2021, , 3-22.	1.0	0
87	Stability Analysis of Discrete-Time System with Time-Varying Delay Based on Generalized Reciprocally Convex Matrix Inequality. , 2021, , .		0
88	Stability analysis of linear systems with two additive time-varying delays via the extended reciprocally convex matrix inequality. , 2021, , .		0
89	Delay-Dependent Stability Analysis of Delayed Discrete-Time Systems via State-Connecting-Based Zero-Value Equations. , 2020, , .		0