

# Chunyu Yang

## List of Publications by Year in descending order

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115  
papers

1,741  
citations

331538

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345118

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115  
docs citations

115  
times ranked

1168  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiobjective Control for T&S Fuzzy Singularly Perturbed Systems. IEEE Transactions on Fuzzy Systems, 2009, 17, 104-115.	6.5	149
2	Finite-Time Stability of Delayed Memristor-Based Fractional-Order Neural Networks. IEEE Transactions on Cybernetics, 2020, 50, 1607-1616.	6.2	87
3	Stabilization bound of singularly perturbed systems subject to actuator saturation. Automatica, 2013, 49, 457-462.	3.0	84
4	Synchronization of Memristive Complex-Valued Neural Networks With Time Delays via Pinning Control Method. IEEE Transactions on Cybernetics, 2020, 50, 3806-3815.	6.2	76
5	Modeling and Monitoring of Dynamic Processes. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 277-284.	7.2	60
6	Lur'e Lyapunov Function and Absolute Stability Criterion for Lur'e Singularly Perturbed Systems. IEEE Transactions on Automatic Control, 2011, 56, 2666-2671.	3.6	56
7	Exponential $H_\infty$ filtering for singular systems with Markovian jump parameters. International Journal of Robust and Nonlinear Control, 2013, 23, 792-806.	2.1	53
8	Disturbance Observer-Based Integral Sliding Mode Control for Singularly Perturbed Systems With Mismatched Disturbances. IEEE Access, 2018, 6, 9854-9861.	2.6	51
9	Positive Realness and Absolute Stability Problem of Descriptor Systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2007, 54, 1142-1149.	0.1	44
10	Neural-Network-Based Contouring Control for Robotic Manipulators in Operational Space. IEEE Transactions on Control Systems Technology, 2012, 20, 1073-1080.	3.2	44
11	An Adaptive-Gain Sliding Mode Observer for Sensorless Control of Permanent Magnet Linear Synchronous Motors. IEEE Access, 2018, 6, 3469-3478.	2.6	43
12	Dissipative control for singular Markovian jump systems with time delay. Optimal Control Applications and Methods, 2012, 33, 415-432.	1.3	36
13	Lyapunov Stability and Strong Passivity Analysis for Nonlinear Descriptor Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1003-1012.	3.5	36
14	Passivity-Based Integral Sliding Mode Control and $\epsilon$ -Bound Estimation for Uncertain Singularly Perturbed Systems With Disturbances. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 452-456.	2.2	33
15	Exponential stability of stochastic singular delay systems with general Markovian switchings. International Journal of Robust and Nonlinear Control, 2015, 25, 3478-3494.	2.1	27
16	Strongly absolute stability of Lur'e descriptor systems: Popov-type criteria. International Journal of Robust and Nonlinear Control, 2009, 19, 786-806.	2.1	26
17	Neural-Network-Based Adaptive Control of Uncertain MIMO Singularly Perturbed Systems With Full-State Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3764-3774.	7.2	24
18	Controller design and analysis for singularly perturbed switched systems with actuator saturation. International Journal of Robust and Nonlinear Control, 2016, 26, 3404-3420.	2.1	22

#	ARTICLE	IF	CITATIONS
19	Observer-based event-triggered control for singularly perturbed systems with saturating actuator. International Journal of Robust and Nonlinear Control, 2019, 29, 3954-3970.	2.1	22
20	Adaptive composite suboptimal control for linear singularly perturbed systems with unknown slow dynamics. International Journal of Robust and Nonlinear Control, 2020, 30, 2625-2643.	2.1	22
21	Stability Analysis and Design for Nonlinear Singular Systems. Lecture Notes in Control and Information Sciences, 2013, , .	0.6	21
22	Anti-windup controller design for singularly perturbed systems subject to actuator saturation. IET Control Theory and Applications, 2016, 10, 469-476.	1.2	21
23	A partially delay-dependent and disordered controller design for discrete-time delayed systems. International Journal of Robust and Nonlinear Control, 2017, 27, 2646-2668.	2.1	21
24	Reinforcement Learning-Based Composite Optimal Operational Control of Industrial Systems With Multiple Unit Devices. IEEE Transactions on Industrial Informatics, 2022, 18, 1091-1101.	7.2	21
25	Strongly absolute stability problem of descriptor systems: Circle criterion. Journal of the Franklin Institute, 2008, 345, 437-451.	1.9	20
26	Closed-loop control of nonlinear neural networks: The estimate of control time and energy cost. Neural Networks, 2019, 117, 145-151.	3.3	20
27	Reinforcement Learning Based Optimal Control of Linear Singularly Perturbed Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1362-1366.	2.2	20
28	Stabilization of discrete-time singular Markovian jump repeated vector nonlinear systems. International Journal of Robust and Nonlinear Control, 2016, 26, 1777-1793.	2.1	19
29	Stability analysis of singularly perturbed control systems with actuator saturation. Journal of the Franklin Institute, 2016, 353, 1284-1296.	1.9	19
30	$\mathcal{H}_\infty$ Control and $\epsilon$ -Bound Estimation of Discrete-Time Singularly Perturbed Systems. Circuits, Systems, and Signal Processing, 2016, 35, 2640-2654.	1.2	19
31	Sampled-data $H_\infty$ filtering for Markovian jump singularly perturbed systems with time-varying delay and missing measurements. International Journal of Systems Science, 2018, 49, 464-478.	3.7	19
32	Lur'e Lyapunov functions and absolute stability criteria for Lur'e systems with multiple nonlinearities. International Journal of Robust and Nonlinear Control, 2007, 17, 829-841.	2.1	18
33	Measurement of the QED energy shift in the $\mu$ -Bound Estimation of Discrete-Time Singularly Perturbed Systems. Physical Review A, 2008, 78, .	1.0	18
34	A Novel Robust Nonlinear Kalman Filter Based on Multivariate Laplace Distribution. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2705-2709.	2.2	18
35	Stabilisation bound of stochastic singularly perturbed systems with Markovian switching by noise control. IET Control Theory and Applications, 2014, 8, 367-374.	1.2	17
36	Multiple models and neural networks based adaptive PID decoupling control of mine main fan switchover system. IET Control Theory and Applications, 2018, 12, 446-455.	1.2	17

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37	Finite-Time Stabilization and Energy Consumption Estimation for Delayed Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1891-1900.	5.9	17
38	Observer-Based Control for the Two-Time-Scale Cyber-Physical Systems: The Dual-Scale DoS Attacks Case. IEEE Transactions on Network Science and Engineering, 2021, 8, 3369-3379.	4.1	17
39	Strongly absolute stability of Lur'e type differential-algebraic systems. Journal of Mathematical Analysis and Applications, 2007, 336, 188-204.	0.5	16
40	Finite-time stabilization and energy consumption estimation for delayed neural networks with bounded activation function. Neural Networks, 2020, 131, 163-171.	3.3	16
41	Nonlinear observers for a class of nonlinear descriptor systems. Optimal Control Applications and Methods, 2013, 34, 348-363.	1.3	15
42	New Criteria on Stability of Dynamic Memristor Delayed Cellular Neural Networks. IEEE Transactions on Cybernetics, 2022, 52, 5367-5379.	6.2	15
43	Disturbance rejection of singularly perturbed switched systems subject to actuator saturation. International Journal of Robust and Nonlinear Control, 2018, 28, 2231-2248.	2.1	14
44	Robust stability of singularly perturbed descriptor systems with uncertain Markovian switchings and nonlinear perturbations. Optimal Control Applications and Methods, 2014, 35, 89-109.	1.3	13
45	Global asymptotic stability analysis of two-time-scale competitive neural networks with time-varying delays. Neurocomputing, 2018, 273, 357-366.	3.5	13
46	State bounding for fuzzy memristive neural networks with bounded input disturbances. Neural Networks, 2021, 134, 163-172.	3.3	13
47	Observer design for a class of nonlinear descriptor systems. , 2009, , .		12
48	Robustness analysis of descriptor systems with parameter uncertainties. International Journal of Control, Automation and Systems, 2010, 8, 204-209.	1.6	12
49	Stability analysis and stabilization for discrete-time singular delay systems. Journal of Systems Engineering and Electronics, 2011, 22, 482-487.	1.1	12
50	Energy Modeling and Parameter Identification of Dual-Motor-Driven Belt Conveyors without Speed Sensors. Energies, 2018, 11, 3313.	1.6	12
51	Model-Free Composite Control of Flexible Manipulators Based on Adaptive Dynamic Programming. Complexity, 2018, 2018, 1-9.	0.9	12
52	Security Control for Multi-Time-Scale CPSs Under DoS Attacks: An Improved Dynamic Event-Triggered Mechanism. IEEE Transactions on Network Science and Engineering, 2022, 9, 1813-1826.	4.1	12
53	Observer Design for Singularly Perturbed Systems With Multirate Sampled and Delayed Measurements. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	11
54	Integral Sliding Mode Control for Singularly Perturbed Systems with Mismatched Disturbances. Circuits, Systems, and Signal Processing, 2019, 38, 1561-1582.	1.2	11

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55	Passivity analysis and disturbance observer-based adaptive integral sliding mode control for uncertain singularly perturbed systems with input nonlinearity. IET Control Theory and Applications, 2019, 13, 3174-3183.	1.2	11
56	Stabilization of stochastic delay systems via a disordered controller. Applied Mathematics and Computation, 2017, 314, 98-109.	1.4	9
57	Suboptimal control for nonlinear slow-fast coupled systems using reinforcement learning and Takagi-Sugeno fuzzy methods. International Journal of Adaptive Control and Signal Processing, 2021, 35, 1017-1038.	2.3	9
58	Modeling and control of mine main fan switchover system. ISA Transactions, 2019, 85, 189-199.	3.1	8
59	Neural Network-Based Adaptive Tracking Control for a Class of Nonlinear Singularly Perturbed Systems. IEEE Access, 2019, 7, 43205-43213.	2.6	8
60	Event-Triggered Observer-Based Fuzzy Control for Coal-Fired Power Generation Systems Based on Singularly Perturbed Theory. IEEE Access, 2020, 8, 133283-133294.	2.6	8
61	Composite Feedforward Compensation for Force Ripple in Permanent Magnet Linear Synchronous Motors. Journal of Shanghai Jiaotong University (Science), 2019, 24, 782-788.	0.5	7
62	Security control for two-time-scale cyber physical systems with multiple transmission channels under DoS attacks: The input-to-state stability. Journal of the Franklin Institute, 2021, 358, 6309-6325.	1.9	7
63	Strongly Absolute Stability Problem of Descriptor Systems. Informatica, 2007, 18, 305-320.	1.5	7
64	Input-to-state stability of a class of Lur'e descriptor systems. International Journal of Robust and Nonlinear Control, 2013, 23, 1324-1337.	2.1	6
65	Robust stabilisation of uncertain delayed Markovian jump systems and its applications. International Journal of Systems Science, 2017, 48, 1226-1241.	3.7	6
66	H $\infty$ sampled-data control for T-S fuzzy singularly perturbed systems with actuator saturation. Journal of Intelligent and Fuzzy Systems, 2017, 33, 779-790.	0.8	6
67	Reachable Set Estimation for Memristive Complex-Valued Neural Networks With Disturbances. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 11029-11034.	7.2	6
68	$H_\infty$ Observer Design for Descriptor Systems with Slope-Restricted Nonlinearities. Asian Journal of Control, 2012, 14, 1133-1140.	1.9	5
69	Stability bound analysis of singularly perturbed systems with time-delay. Chemical Industry and Chemical Engineering Quarterly, 2013, 19, 505-511.	0.4	5
70	Complete Coverage Path Planning Based on Bioinspired Neural Network and Pedestrian Location Prediction. , 2018, , .		5
71	Anti-windup control for nonlinear singularly perturbed switched systems with actuator saturation. International Journal of Systems Science, 2018, 49, 2187-2201.	3.7	5
72	Sampled-data observer-based anti-windup control for singularly perturbed systems with actuator saturation. ISA Transactions, 2019, 91, 32-40.	3.1	5

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73	Time and Energy Costs for Consensus of Multi-Agent Networks With Undirected and Directed Topologies. <i>IEEE Transactions on Network Science and Engineering</i> , 2021, 8, 3380-3391.	4.1	5
74	Inverse optimal synchronization control of competitive neural networks with constant time delays. <i>Neural Computing and Applications</i> , 2022, 34, 241-251.	3.2	5
75	Centralized and Distributed Robust State Estimation Over Sensor Networks Using Elliptical Distribution. <i>IEEE Internet of Things Journal</i> , 2022, 9, 21825-21837.	5.5	5
76	Passivity-based robust adaptive sliding mode control for singular time-delay systems with uncertainties in both derivative matrix and some other system matrices. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 447-470.	2.1	4
77	Reinforcement Learning-Based Sliding Mode Tracking Control for the Two-Time-Scale Systems: Dealing With Actuator Attacks. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022, 69, 3819-3823.	2.2	4
78	Control for a class of nonlinear singularly perturbed systems subject to actuator saturation. <i>IET Control Theory and Applications</i> , 2013, 7, 1415-1421.	1.2	3
79	Finite-time control of linear systems subject to time-varying disturbances. <i>IMA Journal of Mathematical Control and Information</i> , 0, , dnv073.	1.1	3
80	Disturbance-observer based sliding mode control for fuzzy singularly perturbed systems. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019, 37, 1055-1064.	0.8	3
81	Composite control of flexible manipulators based on SMC-DO and LQR. , 2020, , .		3
82	Event-triggered $H^\infty$ filtering for singularly perturbed systems with external disturbance. <i>International Journal of Systems Science</i> , 2021, 52, 407-421.	3.7	3
83	A Novel Equivalent Input Disturbance-Based Adaptive Sliding Mode Control for Singularly Perturbed Systems. <i>IEEE Access</i> , 2021, 9, 12463-12472.	2.6	3
84	Disturbance-observer based antiwindup control for singularly perturbed switched systems. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 6845-6866.	2.1	3
85	Controller design for finite-time attractive and energy consumption of stochastic nonlinear systems. <i>International Journal of Control</i> , 2023, 96, 74-81.	1.2	3
86	$H^\infty$ Control for a Class of Two-Time-Scale Cyber-Physical Systems: An Asynchronous Dynamic Event-Triggered Protocol. <i>IEEE Transactions on Cybernetics</i> , 2023, 53, 5013-5023.	6.2	3
87	Strongly absolute stability of Lur'e-type discrete-time descriptor systems. , 2010, , .		2
88	Stability analysis and stabilization for singular linear systems subject to actuator saturation. , 2012, , .		2
89	Fuzzy Controllers for Nonaffine-in-Control Singularly Perturbed Switched Systems. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-11.	0.6	2
90	Controller design for T-S fuzzy singularly perturbed switched systems. , 2016, , .		2

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91	Suboptimal reduced control of unknown nonlinear singularly perturbed systems via reinforcement learning. International Journal of Robust and Nonlinear Control, 2021, 31, 6626-6645.	2.1	2
92	Event-triggered consensus control for a class of two-time-scale multi-agent systems. International Journal of Control, 2023, 96, 975-986.	1.2	2
93	$H_\infty$ control for discrete-time singular delay systems. , 2010, , .		1
94	Absolute stability of Lur'e singularly perturbed systems with multiple nonlinearities. , 2010, , .		1
95	Passivity analysis of singularly perturbed systems with nonlinear uncertainties. , 2013, , .		1
96	Variable structure control for three-variable autocatalytic reaction. Journal of Control Theory and Applications, 2013, 11, 393-400.	0.8	1
97	$H_\infty$ filtering for discrete-time singularly perturbed systems with missing measurements. , 2013, , .		1
98	Stabilization bound of discrete singularly perturbed systems subject to actuator saturation. , 2014, , .		1
99	Stabilization bound of time-delay singularly perturbed systems with actuator saturation. , 2016, , .		1
100	$H_\infty$ Control for Discrete-time Linear Systems by Integrating Off-policy Q-learning and Zero-sum Game. , 2018, , .		1
101	Adaptive Optimal Output Tracking Control of Completely Unknown Linear Two-Time-Scale Systems. , 2019, , .		1
102	An Efficient Quadratic Constrained Least Squares Localization Method for Narrow Space With Ranging Measurement. IEEE Access, 2019, 7, 174962-174971.	2.6	1
103	Stability and strong passivity of nonlinear descriptor systems. , 2010, , .		0
104	Globally asymptotical stability for descriptor systems with nonlinear perturbations. , 2011, , .		0
105	Strongly absolute stability of Lur'e-type discrete-time descriptor systems with sector and slope restricted nonlinearities. , 2011, , .		0
106	Strongly absolute stability of Lur'e-type discrete-time descriptor systems: Strict LMI-based popov criterion. , 2013, , .		0
107	Passive Control and $\mu$ -Bound Estimation of Singularly Perturbed Systems with Nonlinear Nonlinearities. Mathematical Problems in Engineering, 2013, 2013, 1-9.	0.6	0
108	Control of singularly perturbed systems subject to actuator saturation. , 2014, , .		0

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109	Stability of contractive economic MPC with a generalized terminal constraint for nonlinear systems. , 2016, , .		0
110	Software platform for optimal setting control of complex industrial processes. , 2017, , .		0
111	Integral sliding mode control for singularly perturbed systems with matched disturbances. , 2017, , .		0
112	Sampled-data control for singularly perturbed systems with actuator saturation. , 2017, , .		0
113	Fuzzy Sliding Mode Control for Permanent Magnet Synchronous Motors. , 2018, , .		0
114	Localization of coal mine rescue robots based on multi-sensor fusion. , 2021, , .		0
115	Adaptive Neural Partial State Tracking Control for Full-State-Constrained Uncertain Singularly Perturbed Nonlinear Systems and Its Applications to Electric Circuit. Electronics (Switzerland), 2022, 11, 1209.	1.8	0