

Jun-Guo Lu

List of Publications by Year in descending order

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docs citations

96
times ranked

1586
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Stability and Stabilization of Fractional-Order Interval Systems with the Fractional Order α : The $\alpha=1$ Case. IEEE Transactions on Automatic Control, 2010, 55, 152-158.	5.7	370
2	Chaotic dynamics of the fractional-order $\frac{1}{4}$ system and its synchronization. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 354, 305-311.	2.1	318
3	A note on the fractional-order Chen system. Chaos, Solitons and Fractals, 2006, 27, 685-688.	5.1	318
4	Robust Stability and Stabilization of Fractional-Order Interval Systems: An LMI Approach. IEEE Transactions on Automatic Control, 2009, 54, 1294-1299.	5.7	267
5	Global exponential stability and periodicity of reaction-diffusion delayed recurrent neural networks with Dirichlet boundary conditions. Chaos, Solitons and Fractals, 2008, 35, 116-125.	5.1	262
6	Chaotic dynamics and synchronization of fractional-order Arneodo's systems. Chaos, Solitons and Fractals, 2005, 26, 1125-1133.	5.1	233
7	Stability Analysis of a Class of Nonlinear Fractional-Order Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 1178-1182.	3.0	178
8	Global Asymptotical Synchronization of Chaotic Lur'e Systems Using Sampled Data: A Linear Matrix Inequality Approach. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 586-590.	3.0	108
9	Observer-based control for networked nonlinear systems with random packet losses. ISA Transactions, 2010, 49, 39-46.	5.7	81
10	Synchronization of a class of fractional-order chaotic systems via a scalar transmitted signal. Chaos, Solitons and Fractals, 2006, 27, 519-525.	5.1	76
11	Global exponential stability of fuzzy cellular neural networks with delays and reaction-diffusion terms. Chaos, Solitons and Fractals, 2008, 38, 878-885.	5.1	60
12	Internal Model Control of PMSM Position Servo System: Theory and Experimental Results. IEEE Transactions on Industrial Informatics, 2020, 16, 2202-2211.	11.3	57
13	Stability and stabilization of fractional-order linear systems with convex polytopic uncertainties. Fractional Calculus and Applied Analysis, 2013, 16, 142-157.	2.2	55
14	Formation Control of Mobile Robots Using Distributed Controller With Sampled-Data and Communication Delays. IEEE Transactions on Control Systems Technology, 2016, 24, 2125-2132.	5.2	55
15	Finite-time stability of neutral fractional order time delay systems with Lipschitz nonlinearities. Applied Mathematics and Computation, 2020, 375, 125079.	2.2	53
16	New criterion for finite-time synchronization of fractional order memristor-based neural networks with time delay. Applied Mathematics and Computation, 2021, 389, 125616.	2.2	51
17	Finite-time stability of fractional-order fuzzy cellular neural networks with time delays. Fuzzy Sets and Systems, 2022, 438, 107-120.	2.7	48
18	Robust stability and stabilization of fractional order linear systems with positive real uncertainty. ISA Transactions, 2014, 53, 199-209.	5.7	45

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19	New Criteria on Finite-Time Stability of Fractional-Order Hopfield Neural Networks With Time Delays. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3858-3866.	11.3	42
20	Linear generalized synchronization of continuous-time chaotic systems. Chaos, Solitons and Fractals, 2003, 17, 825-831.	5.1	41
21	Observer-based stabilisation of a class of fractional order nonlinear systems for $0 < \alpha < 1$ and 2 case. IET Control Theory and Applications, 2014, 8, 1238-1246.	2.1	41
22	New criterion for finite-time stability of fractional delay systems. Applied Mathematics Letters, 2020, 104, 106248.	2.7	38
23	Global exponential stability and periodicity of reaction-diffusion recurrent neural networks with distributed delays and Dirichlet boundary conditions. Chaos, Solitons and Fractals, 2009, 39, 1538-1549.	5.1	28
24	Robust stability and stabilization of fractional-order linear systems with nonlinear uncertain parameters: An LMI approach. Chaos, Solitons and Fractals, 2009, 42, 1163-1169.	5.1	28
25	New criteria for finite-time stability of fractional order memristor-based neural networks with time delays. Neurocomputing, 2021, 421, 349-359.	5.9	26
26	Robust stability and stabilization of hybrid fractional-order multi-dimensional systems with interval uncertainties: An LMI approach. Applied Mathematics and Computation, 2021, 401, 126075.	2.2	25
27	Robust asymptotical stability of fractional-order linear systems with structured perturbations. Computers and Mathematics With Applications, 2013, 66, 873-882.	2.7	24
28	Robust decentralized control of perturbed fractional-order linear interconnected systems. Computers and Mathematics With Applications, 2013, 66, 844-859.	2.7	22
29	Global exponential stability of impulsive Cohen-Grossberg neural networks with continuously distributed delays. Chaos, Solitons and Fractals, 2009, 41, 164-174.	5.1	18
30	New approach to finite-time stability for fractional-order BAM neural networks with discrete and distributed delays. Chaos, Solitons and Fractals, 2021, 151, 111225.	5.1	18
31	Maximal perturbation bounds for robust stabilizability of fractional-order systems with norm bounded perturbations. Journal of the Franklin Institute, 2013, 350, 3365-3383.	3.4	17
32	Robust stability bounds of uncertain fractional-order systems. Fractional Calculus and Applied Analysis, 2014, 17, 136-153.	2.2	17
33	Robust control for singular fractional-order interval systems: The H_∞ control approach. ISA Transactions, 2021, 117, 103-117.	5.7	17
34	Time Domain Solution Analysis and Novel Admissibility Conditions of Singular Fractional-Order Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 842-855.	5.4	17
35	Generating chaos via decentralized linear state feedback and a class of nonlinear functions. Chaos, Solitons and Fractals, 2005, 25, 403-413.	5.1	16
36	Decentralised robust H_∞ control of fractional-order interconnected systems with uncertainties. International Journal of Control, 2017, 90, 1221-1229.	1.9	16

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37	Nonlinear speed tracking control of PMSM servo system: A global robust output regulation approach. Control Engineering Practice, 2021, 112, 104832.	5.5	16
38	Fractional order P - I synthesis for steam turbine speed governing systems. ISA Transactions, 2018, 77, 49-57.	5.7	14
39	Speed Tracking Control of Permanent Magnet Synchronous Motor by a Novel Two-step Internal Model Control Approach. International Journal of Control, Automation and Systems, 2018, 16, 2754-2762.	2.7	14
40	Robust stability and stabilization of multi-order fractional-order systems with interval uncertainties: An LMI approach. International Journal of Robust and Nonlinear Control, 2021, 31, 4081-4099.	3.7	14
41	LMI-Based Robust Stability Analysis of Discrete-Time Fractional-Order Systems With Interval Uncertainties. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 1671-1680.	5.4	13
42	Robust stability of output feedback controlled fractional-order systems with structured uncertainties in all system coefficient matrices. ISA Transactions, 2020, 105, 51-62.	5.7	12
43	New results on finite-time stability of fractional-order Cohen-Grossberg neural networks with time delays. Asian Journal of Control, 2022, 24, 2328-2337.	3.0	12
44	Chaotic behavior in sampled-data control systems with saturating control. Chaos, Solitons and Fractals, 2006, 30, 147-155.	5.1	11
45	Global robust output regulation of multivariable systems with nonlinear exosystem. International Journal of Robust and Nonlinear Control, 2016, 26, 3867-3882.	3.7	11
46	Bounded Real Lemmas for Singular Fractional-Order Systems: The $1 \leq \hat{\mu} \leq 2$ Case. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 732-736.	3.0	11
47	An improved neural network tracking control strategy for linear motor-driven inverted pendulum on a cart and experimental study. Neural Computing and Applications, 2022, 34, 5161-5168.	5.6	9
48	Finite-time stability of fractional-order delayed Cohen-Grossberg memristive neural networks: a novel fractional-order delayed Gronwall inequality approach. International Journal of General Systems, 2022, 51, 27-53.	2.5	9
49	LMI-Based Stability Analysis of Continuous-Discrete Fractional-Order 2D Roesser Model. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2797-2801.	3.0	9
50	H_{∞} fault detection observer design for fractional-order singular systems in finite frequency domains. ISA Transactions, 2022, 129, 100-109.	3.7	9
51	Speed tracking and nonlinear disturbance rejection of PM synchronous motor by internal model design. International Journal of Control, Automation and Systems, 2017, 15, 1684-1692.	2.7	8
52	Stability analysis of nonlinear oscillator networks based on the mechanism of cascading failures. Chaos, Solitons and Fractals, 2019, 128, 5-15.	5.1	8
53	Solution Analysis and Novel Admissibility Conditions of SFOSs: The $1 \leq \hat{\mu} \leq 2$ Case. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5056-5067.	9.3	8
54	GLOBAL SYNCHRONIZATION OF A CLASS OF CHAOTIC SYSTEMS WITH A SCALAR TRANSMITTED SIGNAL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1431-1437.	1.7	7

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55	Discrete-Time Neural Network Approach for Tracking Control of Spherical Inverted Pendulum. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, , 1-7.	9.3	7
56	Experimental Output Regulation of Linear Motor Driven Inverted Pendulum With Friction Compensation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 3751-3758.	9.3	7
57	Delay-dependent criteria for robust stability and stabilization of fractional-order time-varying delay systems. European Journal of Control, 2022, 67, 100704.	2.6	7
58	Fault detection observer design for fractional-order systems. , 2017, , .		6
59	Improved quasi-uniform stability criterion of fractional-order neural networks with discrete and distributed delays. Asian Journal of Control, 2023, 25, 229-240.	3.0	6
60	Order-dependent LMI-based stability and stabilization conditions for fractional-order time-delay systems using small gain theorem. International Journal of Robust and Nonlinear Control, 2022, 32, 6484-6506.	3.7	6
61	Trajectory linearization based output tracking control of an unmanned tandem helicopter with variance constraints. International Journal of Control, Automation and Systems, 2010, 8, 1257-1270.	2.7	5
62	Maximal perturbation bounds for robust $\ \pm \cdot \ $ -stability of matrix second-order systems with one-parameter perturbations. Automatica, 2012, 48, 995-998.	5.0	5
63	The ellipsoidal invariant set of fractional order systems subject to actuator saturation: the convex combination form. IEEE/CAA Journal of Automatica Sinica, 2016, 3, 311-319.	13.1	5
64	Robust approach for attitude tracking and nonlinear disturbance rejection of rigid body spacecraft. IET Control Theory and Applications, 2016, 10, 2325-2330.	2.1	5
65	Stability and Stabilization Analysis of Fractional-Order Linear Systems Subject to Actuator Saturation and Disturbance. IFAC-PapersOnLine, 2017, 50, 9718-9723.	0.9	5
66	LMI-Based Stability Conditions for Continuous Fractional-Order Two-Dimensional Fornasini-Marchesini First Model. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1312-1316.	3.0	5
67	Global robust output regulation of a class of MIMO nonlinear systems by nonlinear internal model control. International Journal of Robust and Nonlinear Control, 2021, 31, 4037-4051.	3.7	5
68	Explicit solutions and asymptotic behaviors of Caputo discrete fractional-order equations with variable coefficients. Chaos, Solitons and Fractals, 2021, 153, 111490.	5.1	5
69	Positive real lemmas for singular fractional-order systems: the case. IET Control Theory and Applications, 2020, 14, 2805-2813.	2.1	5
70	Robust variance-constrained control for a class of continuous time-delay systems with parameter uncertainties. Chaos, Solitons and Fractals, 2009, 39, 2179-2187.	5.1	4
71	Quadratic stability and stabilization of matrix second-order time-varying systems. International Journal of Robust and Nonlinear Control, 2012, 22, 2100-2110.	3.7	4
72	Actuator-fault-tolerant trajectory tracking control for multi-robot system under directed network topologies and communication delays. , 2017, , .		4

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73	Dual SIMC-PI Controller Design for Cascade Implement of Input Resetting Control with Application. Industrial & Engineering Chemistry Research, 2018, 57, 6947-6955.	3.7	4
74	A Failure-Tolerant Approach to Synchronous Formation Control of Mobile Robots Under Communication Delays. , 2018, , .		4
75	Robust stability and stabilization of fractional-order systems with polytopic uncertainties via homogeneous polynomial parameter-dependent matrix forms. International Journal of General Systems, 2021, 50, 891-914.	2.5	4
76	Robust normalization and stabilization of descriptor fractional-order systems with uncertainties in all matrices. Journal of the Franklin Institute, 2022, 359, 1113-1129.	3.4	4
77	Exploring a new discrete delayed Mittag-Leffler matrix function to investigate finite-time stability of Riemann-Liouville fractional-order delay difference systems. Mathematical Methods in the Applied Sciences, 2022, 45, 9856-9878.	2.3	4
78	Chaotifying a Linear Time-Invariant System by the Decentralized State Feedback Controller and Sine Function. International Journal of Nonlinear Sciences and Numerical Simulation, 2004, 5, .	1.0	3
79	Necessary and Sufficient Conditions for Extended Strictly Positive Realness of Singular Fractional-Order Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1997-2001.	3.0	3
80	Experimental output regulation of permanent magnet synchronous motor position servo system: An internal model-based two-step control approach. Transactions of the Institute of Measurement and Control, 2022, 44, 153-161.	1.7	3
81	Modeling and simulation of EAST flexible in-vessel inspection robot based on absolute nodal coordinate formulation. , 2014, , .		2
82	Synchronous trajectory tracking for mobile robot network without velocity measurements between coupling robots. , 2016, , .		2
83	Novel Master-Slave Synchronization Conditions for Chaotic Fractional-Order Lur'e Systems Based on Small Gain Theorem. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2187-2191.	3.0	2
84	Maximal Perturbation Bounds for the Robust Stability of Fractional-Order Linear Time-Invariant Parameter-Dependent Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1257-1261.	3.0	2
85	Adaptive Synchronized Formation Control Considering Communication Constraints. Advances in Intelligent Systems and Computing, 2017, , 573-586.	0.6	1
86	H_∞ fault detection observer design for fractional-order singular systems. , 2021, , .		1
87	Switched control of three-phase voltage source PWM rectifier under dynamic load by output feedback. , 2014, , .		0
88	Switched Control of Three-Phase Voltage Source Pulsewidth-Modulated Rectifier Under Dynamic Load: Output Feedback and Robustness. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	1.6	0
89	Corrigendum to "Robust approach for attitude tracking and nonlinear disturbance rejection of rigid body spacecraft" [IET Control Theory & Applications, 2016, 17, pp. 2325-2330]. IET Control Theory and Applications, 2017, 11, 1075-1075.	2.1	0
90	A control problem of PM synchronous motor by two-step internal model controller design. , 2017, , .		0

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91	Decentralized robust H_{∞} controller design for fractional order interconnected systems with element-bounded uncertainties. , 2017, , .		0
92	Nonlinear Internal Model Based Two-Step Controller Design for PMSM Position Servo System. , 2019, , .		0
93	Robust Stability and Stabilization of Commensurate Fractional Multi-Order Systems with Norm-bounded Uncertainties. , 2021, , .		0
94	H_{∞} Performance Robustness Analysis of Fractional-Order Systems with Structured Perturbations. , 2021, , .		0
95	Robust H_{∞} decentralized control of the fractional-order interconnected system with element-bounded uncertainties over finite frequency ranges. , 2021, , .		0
96	Complete Robust Stability Domain of Fractional-Order Linear Time-Invariant Single Parameter-Dependent Systems With the Order $0 < \alpha < 2$. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3854-3858.	3.0	0