# Jun-Guo Lu

List of Publications by Year
in descending order

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Improved quasiâ€uniform stability criterion of fractionalâ€order neural networks with discrete and distributed delays. Asian Journal of Control, 2023, 25, 229-240. | 3.0 | 6 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | New results on finiteâ€time stability of fractionalâ€order Cohenâ€"Grossberg neural networks with time delays. Asian Journal of Control, 2022, 24, 2328-2337. | 3.0 | 12 |
| 6 | Finite-time stability of fractional-order fuzzy cellular neural networks with time delays. Fuzzy Sets and Systems, 2022, 438, 107-120. | 2.7 | 48 |
| 7 | Solution Analysis and Novel Admissibility Conditions of SFOSs: The 1 < <i>Î±</i> < 2 Case. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5056-5067. | 9.3 | 8 |
| 8 | 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 |
| 9 | Finite-time stability of fractional-order delayed Cohenâ€"Grossberg memristive neural networks: a novel fractional-order delayed Gronwall inequality approach. International Journal of General Systems, 2022, 51, 27-53. | 2.5 | 9 |
| 10 | 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 |
| 11 | 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 |
| 12 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e250" altimg="si4.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mo>â^'</mml:mo></m fault detection observer design for fractional-order singular systems in finite frequency domains. ISA Transactions, 2022, 129, 100-109. | 5.7 | 9 |
| 13 | Orderâ€dependent LMIâ€based stability and stabilization conditions for fractionalâ€order timeâ€delay systems using small gain theorem. International Journal of Robust and Nonlinear Control, 2022, 32, 6484-6506. | 3.7 | 6 |
| 14 | Exploring a new discrete delayed Mittagâ€"Leffler matrix function to investigate finiteâ€time stability of Riemannâ€"Liouville fractionalâ€order delay difference systems. Mathematical Methods in the Applied Sciences, 2022, 45, 9856-9878. | 2.3 | 4 |
| 15 | Complete Robust Stability Domain of Fractional-Order Linear Time-Invariant Single Parameter-Dependent Systems With the Order 0 < Î± < 2. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3854-3858. | 3.0 | 0 |
| 16 | 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 |
| 17 | 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 |
| 18 | Bounded Real Lemmas for Singular Fractional-Order Systems: The 1 < Î± < 2 Case. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 732-736. | 3.0 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | New criteria for finite-time stability of fractional order memristor-based neural networks with time delays. Neurocomputing, 2021, 421, 349-359. | 5.9 | 26 |
| 20 | 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 |
| 21 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e674" altimg="si13.svg"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>âˆž</mml:mi></mml:mrow> control for singular fractional-order interval systems: The <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e684" altimg="si14.svg"><mml:mrow><mml:mn>0</mml:mn><mml:mo linebreak="goodbreak" linebreakstyle="after"><</mml:mo><mml:mi>Î±</mml:mi><mml:mo linebreak="go. ISA Transactions, 202 | 5.7 | 17 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | Robust stability and stabilization of multiâ€order fractionalâ€order systems with interval uncertainties: An LMI approach. International Journal of Robust and Nonlinear Control, 2021, 31, 4081-4099. | 3.7 | 14 |
| 26 | 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 |
| 27 | 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 |
| 28 | Novel Master-Slave Synchronization Conditions for Chaotic Fractional-Order Lurâ€™e Systems Based on Small Gain Theorem. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2187-2191. | 3.0 | 2 |
| 29 | Nonlinear speed tracking control of PMSM servo system: A global robust output regulation approach. Control Engineering Practice, 2021, 112, 104832. | 5.5 | 16 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Explicit solutions and asymptotic behaviors of Caputo discrete fractional-order equations with variable coefficients. Chaos, Solitons and Fractals, 2021, 153, 111490. | 5.1 | 5 |
| 34 | Robust Stability and Stabilization of Commensurate Fractional Multi-Order Systems with Norm-bounded Uncertainties. , 2021, , . | | 0 |
| 35 | $H_{infty}$$ Performance Robustness Analysis of Fractional-Order Systems with Structured Perturbations. , 2021, , . | | 0 |
| 36 | H_/H<sub>âˆž</sub> fault detection observer design for fractional-order singular systems. , 2021, , . | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Robust H<sub>âˆž</sub> decentralized control of the fractional-order interconnected system with element-bounded uncertainties over finite frequency ranges. , 2021, , . | | 0 |
| 38 | Internal Model Control of PMSM Position Servo System: Theory and Experimental Results. IEEE Transactions on Industrial Informatics, 2020, 16, 2202-2211. | 11.3 | 57 |
| 39 | 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 |
| 40 | Finite-time stability of neutral fractional order time delay systems with Lipschitz nonlinearities. Applied Mathematics and Computation, 2020, 375, 125079. | 2.2 | 53 |
| 41 | New criterion for finite-time stability of fractional delay systems. Applied Mathematics Letters, 2020, 104, 106248. | 2.7 | 38 |
| 42 | Positive real lemmas for singular fractionalâ€order systems: the case. IET Control Theory and Applications, 2020, 14, 2805-2813. | 2.1 | 5 |
| 43 | 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 |
| 44 | Stability analysis of nonlinear oscillator networks based on the mechanism of cascading failures. Chaos, Solitons and Fractals, 2019, 128, 5-15. | 5.1 | 8 |
| 45 | Nonlinear Internal Model Based Two-Step Controller Design for PMSM Position Servo System. , 2019, , . | | 0 |
| 46 | Fractional order<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>P</mml:mi><mml:msup><mml:mrow><mml:mi>I</mml:mi></mml:mrow><mml:mrow><mml:mi>Î»</mml:m synthesis for steam turbine speed governing systems. ISA Transactions, 2018, 77, 49-57. | 5.7 | 14 |
| 47 | 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 |
| 48 | 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 |
| 49 | A Failure-Tolerant Approach to Synchronous Formation Control of Mobile Robots Under Communication Delays. , 2018, , . | | 4 |
| 50 | Adaptive Synchronized Formation Control Considering Communication Constraints. Advances in Intelligent Systems and Computing, 2017, , 573-586. | 0.6 | 1 |
| 51 | Corrigendum to â€˜Robust approach for attitude tracking and nonlinear disturbance rejection of rigid body spacecraftâ€™ [IET Control Theory & Applications, 2016, <b>10</b> , (17), pp. 2325â€“2330]. IET Control Theory and Applications, 2017, 11, 1075-1075. | 2.1 | 0 |
| 52 | 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 |
| 53 | Fault detection observer design for fractional-order systems. , 2017, , . | | 6 |
| 54 | Decentralised robust <i>H</i><sub>âˆž</sub> control of fractional-order interconnected systems with uncertainties. International Journal of Control, 2017, 90, 1221-1229. | 1.9 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Stability and Stabilization Analysis of Fractional-Order Linear Systems Subject to Actuator Saturation and Disturbance. IFAC-PapersOnLine, 2017, 50, 9718-9723. | 0.9 | 5 |
| 56 | Actuator-fault-tolerant trajectory tracking control for multi-robot system under directed network topologies and communication delays. , 2017, , . | | 4 |
| 57 | A control problem of PM synchronous motor by two-step internal model controller design. , 2017, , . | | 0 |
| 58 | Decentralized robust H<inf>â^ž</inf> controller design for fractional order interconnected systems with element-bounded uncertainties. , 2017, , . | | 0 |
| 59 | Global robust output regulation of multivariable systems with nonlinear exosystem. International Journal of Robust and Nonlinear Control, 2016, 26, 3867-3882. | 3.7 | 11 |
| 60 | 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 |
| 61 | Synchronous trajectory tracking for mobile robot network without velocity measurements between coupling robots. , 2016, , . | | 2 |
| 62 | 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 |
| 63 | 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 |
| 64 | 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 |
| 65 | Switched control of three-phase voltage source PWM rectifier under dynamic load by output feedback. , 2014, , . | | 0 |
| 66 | Robust stability and stabilization of fractional order linear systems with positive real uncertainty. ISA Transactions, 2014, 53, 199-209. | 5.7 | 45 |
| 67 | Robust stability bounds of uncertain fractional-order systems. Fractional Calculus and Applied Analysis, 2014, 17, 136-153. | 2.2 | 17 |
| 68 | Observerâ€based stabilisation of a class of fractional order nonâ€linear systems for 0 < <i>Î±</i> <2 case. IET Control Theory and Applications, 2014, 8, 1238-1246. | 2.1 | 41 |
| 69 | Modeling and simulation of EAST flexible in-vessel inspection robot based on absolute nodal coordinate formulation. , 2014, , . | | 2 |
| 70 | Robust asymptotical stability of fractional-order linear systems with structured perturbations. Computers and Mathematics With Applications, 2013, 66, 873-882. | 2.7 | 24 |
| 71 | 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 |
| 72 | Robust decentralized control of perturbed fractional-order linear interconnected systems. Computers and Mathematics With Applications, 2013, 66, 844-859. | 2.7 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Stability and stabilization of fractional-order linear systems with convex polytopic uncertainties. Fractional Calculus and Applied Analysis, 2013, 16, 142-157. | 2.2 | 55 |
| 74 | Quadratic stability and stabilization of matrix secondâ€order timeâ€varying systems. International Journal of Robust and Nonlinear Control, 2012, 22, 2100-2110. | 3.7 | 4 |
| 75 | Maximal perturbation bounds for robust <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>Î±</mml:mi></mml:math>-stability of matrix second-order systems with one-parameter perturbations. Automatica, 2012, 48, 995-998. | 5.0 | 5 |
| 76 | 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 |
| 77 | Observer-based control for networked nonlinear systems with random packet losses. ISA Transactions, 2010, 49, 39-46. | 5.7 | 81 |
| 78 | Robust Stability and Stabilization of Fractional-Order Interval Systems with the Fractional Order $alpha$: The $0â‰ªalphaâ‰ª1$ Case. IEEE Transactions on Automatic Control, 2010, 55, 152-158. | 5.7 | 370 |
| 79 | Global exponential stability and periodicity of reactionâ€"diffusion recurrent neural networks with distributed delays and Dirichlet boundary conditions. Chaos, Solitons and Fractals, 2009, 39, 1538-1549. | 5.1 | 28 |
| 80 | 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 |
| 81 | Global exponential stability of impulsive Cohenâ€"Grossberg neural networks with continuously distributed delays. Chaos, Solitons and Fractals, 2009, 41, 164-174. | 5.1 | 18 |
| 82 | 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 |
| 83 | Robust Stability and Stabilization of Fractional-Order Interval Systems: An LMI Approach. IEEE Transactions on Automatic Control, 2009, 54, 1294-1299. | 5.7 | 267 |
| 84 | Global exponential stability and periodicity of reactionâ€"diffusion delayed recurrent neural networks with Dirichlet boundary conditions. Chaos, Solitons and Fractals, 2008, 35, 116-125. | 5.1 | 262 |
| 85 | Global exponential stability of fuzzy cellular neural networks with delays and reactionâ€"diffusion terms. Chaos, Solitons and Fractals, 2008, 38, 878-885. | 5.1 | 60 |
| 86 | 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 |
| 87 | 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 |
| 88 | 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 |
| 89 | Chaotic behavior in sampled-data control systems with saturating control. Chaos, Solitons and Fractals, 2006, 30, 147-155. | 5.1 | 11 |
| 90 | Chaotic dynamics of the fractional-order LÃ¼ system and its synchronization. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 354, 305-311. | 2.1 | 318 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | A note on the fractional-order Chen system. Chaos, Solitons and Fractals, 2006, 27, 685-688. | 5.1 | 318 |
| 92 | Generating chaos via decentralized linear state feedback and a class of nonlinear functions. Chaos, Solitons and Fractals, 2005, 25, 403-413. | 5.1 | 16 |
| 93 | Chaotic dynamics and synchronization of fractional-order Arneodoâ€™s systems. Chaos, Solitons and Fractals, 2005, 26, 1125-1133. | 5.1 | 233 |
| 94 | 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 |
| 95 | 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 |
| 96 | Linear generalized synchronization of continuous-time chaotic systems. Chaos, Solitons and Fractals, 2003, 17, 825-831. | 5.1 | 41 |