

Raja Ramachandran

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7578559/publications.pdf>

Version: 2024-02-01

98
papers

2,493
citations

159585

30
h-index

233421

45
g-index

99
all docs

99
docs citations

99
times ranked

1127
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed Time-Delayed Nonlinear Multi-agent Dynamic Systems for Asymptotic Stability and Non-fragile Synchronization Criteria. <i>Neural Processing Letters</i> , 2022, 54, 43-74.	3.2	2
2	Globally asymptotic stability and synchronization analysis of uncertain multi-agent systems with multiple time-varying delays and impulses. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 737-773.	3.7	4
3	Impact of strong determination and awareness on substance addictions: A mathematical modeling approach. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 4140-4160.	2.3	4
4	Improved Results on Finite-Time Passivity and Synchronization Problem for Fractional-Order Memristor-Based Competitive Neural Networks: Interval Matrix Approach. <i>Fractal and Fractional</i> , 2022, 6, 36.	3.3	10
5	Stability analysis and comparative study on different eco-epidemiological models: Stage structure for prey and predator concerning impulsive control. <i>Optimal Control Applications and Methods</i> , 2022, 43, 842-866.	2.1	13
6	A Robust Non-Fragile Control Lag Synchronization for Fractional Order Multi-Weighted Complex Dynamic Networks with Coupling Delays. <i>Neural Processing Letters</i> , 2022, 54, 2919-2940.	3.2	5
7	Modeling and analysis of SEIRS epidemic models using homotopy perturbation method: A special outlook to 2019-nCoV in India. <i>International Journal of Biomathematics</i> , 2022, 15, .	2.9	2
8	An asymptotic state estimator design and synchronization criteria for fractional order time-delayed genetic regulatory networks. <i>Asian Journal of Control</i> , 2022, 24, 3163-3174.	3.0	5
9	An Integrated Eco-Epidemiological Plant Pest Natural Enemy Differential Equation Model with Various Impulsive Strategies. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-23.	1.1	4
10	$\mathcal{O}(t^{-\eta})$ -Synchronization and Asymptotic Synchronization of Delayed Fractional Order Neural Networks. <i>Acta Mathematica Scientia</i> , 2022, 42, 1273-1292.	1.0	2
11	Exponential Synchronization of Nonlinear Multi-weighted Complex Dynamic Networks with Hybrid Time Varying Delays. <i>Neural Processing Letters</i> , 2021, 53, 1035-1063.	3.2	17
12	Controlling Wolbachia Transmission and Invasion Dynamics among <i>Aedes Aegypti</i> Population via Impulsive Control Strategy. <i>Symmetry</i> , 2021, 13, 434.	2.2	6
13	An LMI Approach-Based Mathematical Model to Control <i>Aedes aegypti</i> Mosquitoes Population via Biological Control. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-18.	1.1	6
14	Existence, Uniqueness, and Exponential Stability of Uncertain Delayed Neural Networks with Inertial Term: Nonreduced Order Case. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-15.	1.1	3
15	A Lyapunov-Krasovskii Functional Approach to Stability and Linear Feedback Synchronization Control for Nonlinear Multi-Agent Systems with Mixed Time Delays. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-20.	1.1	5
16	Modified projective synchronization of distributive fractional order complex dynamic networks with model uncertainty via adaptive control. <i>Chaos, Solitons and Fractals</i> , 2021, 147, 110853.	5.1	26
17	Global projective lag synchronization of fractional order memristor based BAM neural networks with mixed time varying delays. <i>Asian Journal of Control</i> , 2020, 22, 570-583.	3.0	44
18	A delay-dependent asymptotic stability criteria for uncertain BAM neural networks with leakage and discrete time-varying delays: A novel summation inequality. <i>Asian Journal of Control</i> , 2020, 22, 1880-1891.	3.0	10

#	ARTICLE	IF	CITATIONS
19	Finite-Time Mittag-Leffler Stability of Fractional-Order Quaternion-Valued Memristive Neural Networks with Impulses. <i>Neural Processing Letters</i> , 2020, 51, 1485-1526.	3.2	84
20	Finite-time reliable dissipative control of neutral-type switched artificial neural networks with non-linear fault inputs and randomly occurring uncertainties. <i>Asian Journal of Control</i> , 2020, 22, 2487-2499.	3.0	18
21	Impulsive effects on stability and passivity analysis of memristor-based fractional-order competitive neural networks. <i>Neurocomputing</i> , 2020, 417, 290-301.	5.9	118
22	Controllability criteria of fractional differential dynamical systems with non-instantaneous impulses. <i>IMA Journal of Mathematical Control and Information</i> , 2020, 37, 777-793.	1.7	5
23	Finite-time synchronization criterion of graph theory perspective fractional-order coupled discontinuous neural networks. <i>Advances in Difference Equations</i> , 2020, 2020, .	3.5	27
24	Time-Varying Delayed H^∞ Control Problem for Nonlinear Systems: A Finite Time Study Using Quadratic Convex Approach. <i>Symmetry</i> , 2020, 12, 713.	2.2	3
25	Multi-weighted Complex Structure on Fractional Order Coupled Neural Networks with Linear Coupling Delay: A Robust Synchronization Problem. <i>Neural Processing Letters</i> , 2020, 51, 2453-2479.	3.2	20
26	Robust Dissipativity Analysis of Hopfield-Type Complex-Valued Neural Networks with Time-Varying Delays and Linear Fractional Uncertainties. <i>Mathematics</i> , 2020, 8, 595.	2.2	36
27	Mittag-Leffler stability and adaptive impulsive synchronization of fractional order neural networks in quaternion field. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 6223-6253.	2.3	68
28	Robust Stability of Complex-Valued Stochastic Neural Networks with Time-Varying Delays and Parameter Uncertainties. <i>Mathematics</i> , 2020, 8, 742.	2.2	56
29	Impulsive effects on competitive neural networks with mixed delays: Existence and exponential stability analysis. <i>Mathematics and Computers in Simulation</i> , 2019, 155, 290-302.	4.4	22
30	Hybrid Control Scheme for Projective Lag Synchronization of Riemann-Liouville Sense Fractional Order Memristive BAM Neural Networks with Mixed Delays. <i>Mathematics</i> , 2019, 7, 759.	2.2	114
31	Passivity Analysis for Uncertain BAM Neural Networks with Leakage, Discrete and Distributed Delays Using Novel Summation Inequality. <i>International Journal of Control, Automation and Systems</i> , 2019, 17, 2114-2124.	2.7	16
32	Existence, Uniqueness and Exponential Stability of Periodic Solution for Discrete-Time Delayed BAM Neural Networks Based on Coincidence Degree Theory and Graph Theoretic Method. <i>Mathematics</i> , 2019, 7, 1055.	2.2	40
33	Stability analysis and robust synchronization of fractional-order competitive neural networks with different time scales and impulsive perturbations. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019, 33, 1635-1660.	4.1	26
34	Stability and pinning synchronization analysis of fractional order delayed Cohen-Grossberg neural networks with discontinuous activations. <i>Applied Mathematics and Computation</i> , 2019, 359, 241-260.	2.2	40
35	Mittag-Leffler state estimator design and synchronization analysis for fractional-order BAM neural networks with time delays. <i>International Journal of Adaptive Control and Signal Processing</i> , 2019, 33, 855-874.	4.1	32
36	Traffic assignment: Methods and simulations for an alternative formulation of the fixed demand problem. <i>Mathematics and Computers in Simulation</i> , 2019, 155, 360-373.	4.4	5

#	ARTICLE	IF	CITATIONS
37	Stability and synchronization criteria for fractional order competitive neural networks with time delays: An asymptotic expansion of Mittag Leffler function. <i>Journal of the Franklin Institute</i> , 2019, 356, 2212-2239.	3.4	77
38	Global Robust Synchronization of Fractional Order Complex Valued Neural Networks with Mixed Time Varying Delays and Impulses. <i>International Journal of Control, Automation and Systems</i> , 2019, 17, 509-520.	2.7	57
39	Further mean-square asymptotic stability of impulsive discrete-time stochastic BAM neural networks with Markovian jumping and multiple time-varying delays. <i>Journal of the Franklin Institute</i> , 2019, 356, 561-591.	3.4	63
40	Fractional delay segments method on time-delayed recurrent neural networks with impulsive and stochastic effects: An exponential stability approach. <i>Neurocomputing</i> , 2019, 323, 277-298.	5.9	19
41	Nonlinear integro-differential equations with small unknown parameters: A controllability analysis problem. <i>Mathematics and Computers in Simulation</i> , 2019, 155, 15-26.	4.4	10
42	Dissipative analysis for aircraft flight control systems with randomly occurring uncertainties via non-fragile sampled-data control. <i>Mathematics and Computers in Simulation</i> , 2019, 155, 217-226.	4.4	18
43	Impulsive discrete-time GRNs with probabilistic time delays, distributed and leakage delays: an asymptotic stability issue. <i>IMA Journal of Mathematical Control and Information</i> , 2019, 36, 79-100.	1.7	12
44	Stabilization of Switched Stochastic Genetic Regulatory Networks with Leakage and Impulsive Effects. <i>Neural Processing Letters</i> , 2019, 49, 593-610.	3.2	23
45	Dissipativity analysis of stochastic fuzzy neural networks with randomly occurring uncertainties using delay dividing approach. <i>Nonlinear Analysis: Modelling and Control</i> , 2019, 24, .	1.6	1
46	Discrete-time stochastic impulsive BAM neural networks with leakage and mixed time delays: An exponential stability problem. <i>Journal of the Franklin Institute</i> , 2018, 355, 4404-4435.	3.4	31
47	Robust generalized Mittag-Leffler synchronization of fractional order neural networks with discontinuous activation and impulses. <i>Neural Networks</i> , 2018, 103, 128-141.	5.9	60
48	A New Global Robust Exponential Stability Criterion for H^∞ Control of Uncertain Stochastic Neutral-type Neural Networks with Both Timevarying Delays. <i>International Journal of Control, Automation and Systems</i> , 2018, 16, 726-738.	2.7	13
49	Controllability Analysis of Nonlinear Neutral-type Fractional-order Differential Systems with State Delay and Impulsive Effects. <i>International Journal of Control, Automation and Systems</i> , 2018, 16, 659-669.	2.7	33
50	LMI-based results on exponential stability of BAM-type neural networks with leakage and both time-varying delays: A non-fragile state estimation approach. <i>Applied Mathematics and Computation</i> , 2018, 326, 33-55.	2.2	36
51	A state estimation H^∞ issue for discrete-time stochastic impulsive genetic regulatory networks in the presence of leakage, multiple delays and Markovian jumping parameters. <i>Journal of the Franklin Institute</i> , 2018, 355, 2735-2761.	3.4	23
52	Impulsive discrete-time BAM neural networks with random parameter uncertainties and time-varying leakage delays: an asymptotic stability analysis. <i>Nonlinear Dynamics</i> , 2018, 91, 2571-2592.	5.2	13
53	Approximation of state variables for discrete-time stochastic genetic regulatory networks with leakage, distributed, and probabilistic measurement delays: a robust stability problem. <i>Advances in Difference Equations</i> , 2018, 2018, 123.	3.5	14
54	Novel global robust exponential stability criterion for uncertain inertial-type BAM neural networks with discrete and distributed time-varying delays via Lagrange sense. <i>Journal of the Franklin Institute</i> , 2018, 355, 4727-4754.	3.4	62

#	ARTICLE	IF	CITATIONS
55	Global exponential stability of antiperiodic solutions for impulsive discrete-time Markovian jumping stochastic BAM neural networks with additive time-varying delays and leakage delay. <i>International Journal of Adaptive Control and Signal Processing</i> , 2018, 32, 908-936.	4.1	9
56	Impulsive Cohen-Grossberg BAM neural networks with mixed time-delays: An exponential stability analysis issue. <i>Neurocomputing</i> , 2018, 275, 2588-2602.	5.9	61
57	Robust finite-time non-fragile sampled-data control for T-S fuzzy flexible spacecraft model with stochastic actuator faults. <i>Applied Mathematics and Computation</i> , 2018, 321, 483-497.	2.2	57
58	Novel results on passivity and exponential passivity for multiple discrete delayed neutral-type neural networks with leakage and distributed time-delays. <i>Chaos, Solitons and Fractals</i> , 2018, 115, 268-282.	5.1	33
59	Enhanced result on stability analysis of randomly occurring uncertain parameters, leakage, and impulsive BAM neural networks with time-varying delays: Discrete-time case. <i>International Journal of Adaptive Control and Signal Processing</i> , 2018, 32, 1010-1039.	4.1	11
60	Global exponential stability of Markovian jumping stochastic impulsive uncertain BAM neural networks with leakage, mixed time delays, and Γ -inverse Hölder activation functions. <i>Advances in Difference Equations</i> , 2018, 2018, 113.	3.5	17
61	Further synchronization in finite time analysis for time-varying delayed fractional order memristive competitive neural networks with leakage delay. <i>Neurocomputing</i> , 2018, 317, 110-126.	5.9	73
62	An advanced delay-dependent approach of impulsive genetic regulatory networks besides the distributed delays, parameter uncertainties and time-varying delays. <i>Nonlinear Analysis: Modelling and Control</i> , 2018, 23, 803-829.	1.6	5
63	Effects of leakage delays and impulsive control in dissipativity analysis of Takagi-Sugeno fuzzy neural networks with randomly occurring uncertainties. <i>Journal of the Franklin Institute</i> , 2017, 354, 3574-3593.	3.4	18
64	Stability analysis of uncertain neutral systems with discrete and distributed delays via the delay partition approach. <i>International Journal of Control, Automation and Systems</i> , 2017, 15, 2149-2160.	2.7	9
65	Improved Results on Delay-Dependent H_{∞} Control for Uncertain Systems with Time-Varying Delays. <i>Circuits, Systems, and Signal Processing</i> , 2017, 36, 1836-1859.	2.0	4
66	Enhanced robust finite-time passivity for Markovian jumping discrete-time BAM neural networks with leakage delay. <i>Advances in Difference Equations</i> , 2017, 2017, 318.	3.5	36
67	Mo1428 Can Development of Acute Kidney Injury in Acute Pancreatitis Be Predicted?. <i>Gastroenterology</i> , 2016, 150, S710.	1.3	0
68	Delay-dependent asymptotic stability criteria for genetic regulatory networks with impulsive perturbations. <i>Neurocomputing</i> , 2016, 214, 981-990.	5.9	27
69	New global asymptotic stability of discrete-time recurrent neural networks with multiple time-varying delays in the leakage term and impulsive effects. <i>Neurocomputing</i> , 2016, 214, 420-429.	5.9	22
70	Delay-interval-dependent passivity analysis of stochastic neural networks with Markovian jumping parameters and time delay in the leakage term. <i>Nonlinear Analysis: Hybrid Systems</i> , 2016, 22, 262-275.	3.5	22
71	New delay-interval-dependent stability criteria for static neural networks with time-varying delays. <i>Neurocomputing</i> , 2016, 186, 1-7.	5.9	20
72	Robust passivity analysis for neutral-type neural networks with mixed and leakage delays. <i>Neurocomputing</i> , 2016, 175, 635-643.	5.9	18

#	ARTICLE	IF	CITATIONS
73	New stability criterion of neural networks with leakage delays and impulses: a piecewise delay method. <i>Cognitive Neurodynamics</i> , 2016, 10, 85-98.	4.0	17
74	Exponential passivity analysis of stochastic neural networks with leakage, distributed delays and Markovian jumping parameters. <i>Neurocomputing</i> , 2016, 175, 401-410.	5.9	32
75	New delay-interval-dependent stability analysis of neutral type BAM neural networks with successive time delay components. <i>Neurocomputing</i> , 2016, 171, 1265-1280.	5.9	19
76	Improved stability analysis of uncertain neutral type neural networks with leakage delays and impulsive effects. <i>Applied Mathematics and Computation</i> , 2015, 266, 1050-1069.	2.2	49
77	Improved stochastic dissipativity of uncertain discrete-time neural networks with multiple delays and impulses. <i>International Journal of Machine Learning and Cybernetics</i> , 2015, 6, 289-305.	3.6	13
78	Dynamics of Neural Networks and Applications in Optimization. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-2.	1.1	1
79	Passivity analysis for uncertain discrete-time stochastic BAM neural networks with time-varying delays. <i>Neural Computing and Applications</i> , 2014, 25, 751-766.	5.6	22
80	Dynamic analysis of discrete-time BAM neural networks with stochastic perturbations and impulses. <i>International Journal of Machine Learning and Cybernetics</i> , 2014, 5, 39-50.	3.6	12
81	Exponential Stability for Delayed Stochastic Bidirectional Associative Memory Neural Networks with Markovian Jumping and Impulses. <i>Journal of Optimization Theory and Applications</i> , 2013, 158, 251-273.	1.5	11
82	Exponential stability for stochastic delayed recurrent neural networks with mixed time-varying delays and impulses: the continuous-time case. <i>Physica Scripta</i> , 2013, 87, 055802.	2.5	8
83	Dissipativity of discrete-time BAM stochastic neural networks with Markovian switching and impulses. <i>Journal of the Franklin Institute</i> , 2013, 350, 3217-3247.	3.4	40
84	Linear matrix inequality approach to stochastic stability of uncertain delayed BAM neural networks. <i>IMA Journal of Applied Mathematics</i> , 2013, 78, 1156-1178.	1.6	19
85	New delay dependent robust asymptotic stability for uncertain stochastic recurrent neural networks with multiple time varying delays. <i>Journal of the Franklin Institute</i> , 2012, 349, 2108-2123.	3.4	36
86	Exponential Stability for Delayed Stochastic Bidirectional Associative Memory Neural Networks with Markovian Jumping and Impulses. <i>Journal of Optimization Theory and Applications</i> , 2011, 150, 166-187.	1.5	48
87	Global exponential stability of BAM neural networks with time-varying delays: The discrete-time case. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 613-622.	3.3	47
88	Stability of impulsive Hopfield neural networks with Markovian switching and time-varying delays. <i>International Journal of Applied Mathematics and Computer Science</i> , 2011, 21, 127-135.	1.5	23
89	Exponential Stability for Discrete-Time Stochastic BAM Neural Networks with Discrete and Distributed Delays. , 2011, 2011, 1-23.		0
90	Stability analysis for discrete-time stochastic neural networks with mixed time delays and impulsive effects. <i>Canadian Journal of Physics</i> , 2010, 88, 885-898.	1.1	23

#	ARTICLE	IF	CITATIONS
91	Asymptotic stability of delayed stochastic genetic regulatory networks with impulses. <i>Physica Scripta</i> , 2010, 82, 055009.	2.5	46
92	Renal Disease Is a Prodrome of Multiple Myeloma: An Analysis of 50 Patients from Eastern India. <i>Renal Failure</i> , 2009, 31, 267-271.	2.1	13
93	Decreasing incidence of renal cortical necrosis in patients with acute renal failure in developing countries: a single-centre experience of 22 years from Eastern India. <i>Nephrology Dialysis Transplantation</i> , 2007, 22, 1213-1217.	0.7	96
94	Performance evaluation through simulation modeling in a cotton spinning system. <i>Simulation Modelling Practice and Theory</i> , 2007, 15, 1163-1172.	3.8	3
95	Passivity analysis of uncertain stochastic neural network with leakage and distributed delays under impulsive perturbations. <i>Kybernetika</i> , 0, , 3-29.	0.0	2
96	Robust non-fragile Mittag-Leffler synchronization of fractional order non-linear complex dynamical networks with constant and infinite distributed delays. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	2.3	6
97	Global exponential stability results for the host-parasitoid model of sugarcane borer in stochastic environment with impulsive effects via non-fragile control: An LMI approach. <i>Optimal Control Applications and Methods</i> , 0, , .	2.1	1
98	Asymptotic synchronization of fractional-order non-identical complex dynamical networks with parameter uncertainties. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	2.3	1