Min Xiao

List of Publications by Year
in descending order

112 papers	2,337 citations	201385 27 h-index	223531 46 g-index
112 all docs	112 docs citations	112 times ranked	1040 citing authors

#	Article	IF	Citations
1	Stability and Hopf Bifurcation in a Simplified BAM Neural Network With Two Time Delays. IEEE Transactions on Neural Networks, 2007, 18, 416-430.	4.8	170
2	Bifurcations in a delayed fractional complex-valued neural network. Applied Mathematics and Computation, 2017, 292, 210-227.	1.4	117
3	Undamped Oscillations Generated by Hopf Bifurcations in Fractional-Order Recurrent Neural Networks With Caputo Derivative. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 3201-3214.	7.2	114
4	Hybrid control on bifurcation for a delayed fractional gene regulatory network. Chaos, Solitons and Fractals, 2016, 87, 19-29.	2.5	112
5	Controlling bifurcation in a delayed fractional predator–prey system with incommensurate orders. Applied Mathematics and Computation, 2017, 293, 293-310.	1.4	110
6	A New Framework for Analysis on Stability and Bifurcation in a Class of Neural Networks With Discrete and Distributed Delays. IEEE Transactions on Cybernetics, 2015, 45, 2224-2236.	6.2	104
7	Hopf Bifurcation of an <formula formulatype="inline"><tex Notation="TeX">$(n+1)$</tex> </formula>-Neuron Bidirectional Associative Memory Neural Network Model With Delays. IEEE Transactions on Neural Networks and Learning Systems, 2013, 24, 118-132.	7.2	88
8	Novel bifurcation results for a delayed fractional-order quaternion-valued neural network. Neural Networks, 2019, 117, 67-93.	3.3	82
9	Genetic oscillation deduced from Hopf bifurcation in a genetic regulatory network with delays. Mathematical Biosciences, 2008, 215, 55-63.	0.9	77
10	Fractional-order PD control at Hopf bifurcations in delayed fractional-order small-world networks. Journal of the Franklin Institute, 2017, 354, 7643-7667.	1.9	77
11	Hopf bifurcation analysis of a delayed fractional-order genetic regulatory network model. Neurocomputing, 2018, 275, 677-686.	3.5	76
12	Effects of time delays on stability and Hopf bifurcation in a fractional ring-structured network with arbitrary neurons. Communications in Nonlinear Science and Numerical Simulation, 2018, 57, 1-13.	1.7	71
13	Bifurcations in a fractional-order neural network with multiple leakage delays. Neural Networks, 2020, 131, 115-126.	3.3	64
14	Stability and Bifurcation of Delayed Fractional-Order Dual Congestion Control Algorithms. IEEE Transactions on Automatic Control, 2017, 62, 4819-4826.	3.6	46
15	Disparate delays-induced bifurcations in a fractional-order neural network. Journal of the Franklin Institute, 2019, 356, 2825-2846.	1.9	45
16	Delayed feedback-based bifurcation control in an Internet congestion model. Journal of Mathematical Analysis and Applications, 2007, 332, 1010-1027.	0.5	40
17	Bifurcation and control in a neural network with small and large delays. Neural Networks, 2013, 44, 132-142.	3.3	40
18	Time-delayed feedback control of dynamical small-world networks at Hopf bifurcation. Nonlinear Dynamics, 2009, 58, 319-344.	2.7	39

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19	Bifurcation and Oscillatory Dynamics of Delayed Cyclic Gene Networks Including Small RNAs. IEEE Transactions on Cybernetics, 2019, 49, 883-896.	6.2	38
20	Fractional-order PD control at Hopf bifurcations in a fractional-order congestion control system. Nonlinear Dynamics, 2017, 90, 2185-2198.	2.7	37
21	UAVs' Formation Keeping Control Based on Multi–Agent System Consensus. IEEE Access, 2020, 8, 49000-49012.	2.6	37
22	Synchronization of coupled heterogeneous complex networks. Journal of the Franklin Institute, 2017, 354, 4102-4125.	1.9	36
23	Local Bifurcation Analysis of a Fractional-Order Dynamic Model of Genetic Regulatory Networks with Delays. Neural Processing Letters, 2018, 47, 1285-1296.	2.0	35
24	Approximate expressions of a fractional order Van der Pol oscillator by the residue harmonic balance method. Mathematics and Computers in Simulation, 2013, 89, 1-12.	2.4	33
25	Stability and Bifurcation Analysis of Arbitrarily High-Dimensional Genetic Regulatory Networks With Hub Structure and Bidirectional Coupling. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1243-1254.	3.5	31
26	Modeling, Analysis and Bifurcation Control of a Delayed Fractional-Order Predator–Prey Model. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1850117.	0.7	30
27	Stability and bifurcation of genetic regulatory networks with small RNAs and multiple delays. International Journal of Computer Mathematics, 2014, 91, 907-927.	1.0	28
28	Hybrid tactics for bifurcation control in a fractional-order delayed predator–prey model. Physica A: Statistical Mechanics and Its Applications, 2019, 515, 183-191.	1.2	28
29	BIFURCATION CONTROL OF A CONGESTION CONTROL MODEL VIA STATE FEEDBACK. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1330018.	0.7	27
30	Novel results on bifurcation for a fractional-order complex-valued neural network with leakage delay. Physica A: Statistical Mechanics and Its Applications, 2019, 514, 868-883.	1.2	26
31	Bifurcation Control Of A Fractional–Order Van Der Pol Oscillator Based On The State Feedback. Asian Journal of Control, 2015, 17, 1756-1766.	1.9	25
32	Local bifurcation analysis of a delayed fractional-order dynamic model of dual congestion control algorithms. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 361-369.	8.5	25
33	Bifurcation analysis and control in exponential RED algorithm. Neurocomputing, 2014, 129, 232-245.	3.5	23
34	State feedback control at Hopf bifurcation in an exponential RED algorithm model. Nonlinear Dynamics, 2014, 76, 1469-1484.	2.7	22
35	Stability and Hopf bifurcation in a delayed competitive web sites model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 353, 138-150.	0.9	21
36	Stability and bifurcation analysis of a fractional predator–prey model involving two nonidentical delays. Mathematics and Computers in Simulation, 2021, 181, 562-580.	2.4	21

#	Article	IF	Citations
37	Fractional-Order PID Controller Synthesis for Bifurcation of Fractional-Order Small-World Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4334-4346.	5.9	20
38	Consensus in nonlinear multi-agent systems with nonidentical nodes and sampled-data control. Science China Information Sciences, 2018, 61, 1.	2.7	18
39	Hopf bifurcation control for a fluid flow model of internet congestion control systems via state feedback. IMA Journal of Mathematical Control and Information, 2016, 33, 69-93.	1.1	17
40	Stability and bifurcation control of a neuron system under a novel fractional-order PD controller. Science China Technological Sciences, 2019, 62, 2120-2129.	2.0	16
41	Dynamical Bifurcation of Large-Scale-Delayed Fractional-Order Neural Networks With Hub Structure and Multiple Rings. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1731-1743.	5.9	16
42	Frequency domain approach to computational analysis of bifurcation and periodic solution in a two-neuron network model with distributed delays and self-feedbacks. Neurocomputing, 2013, 99, 206-213.	3.5	15
43	Dynamical behaviors of the chaotic Brushless <scp>DC</scp> motors model. Complexity, 2016, 21, 79-85.	0.9	14
44	Dynamics Analysis and Design for a Bidirectional Super-Ring-Shaped Neural Network With n Neurons and Multiple Delays. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2978-2992.	7.2	14
45	Qualitative Analysis and Bifurcation in a Neuron System With Memristor Characteristics and Time Delay. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1974-1988.	7.2	13
46	Stability and Hopf Bifurcation Analysis of an (n + m)-Neuron Double-Ring Neural Network Model with Multiple Time Delays. Journal of Systems Science and Complexity, 2022, 35, 159-178.	1.6	13
47	Bifurcation Analysis of a Class of (n + 1)-Dimension Internet Congestion Control Systems. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1550019.	0.7	12
48	Hopf bifurcation analysis in a fractional-order survival red blood cells model and PDÎ±PD^{alpha} control. Advances in Difference Equations, 2018, 2018, .	3.5	12
49	Dynamics of Fractional-Order Neural Networks With Discrete and Distributed Delays. IEEE Access, 2020, 8, 46071-46080.	2.6	12
50	Stability and bifurcation analysis of a fractional-order single-gene regulatory model with delays under a novel PDÎ± control law. International Journal of Biomathematics, 2020, 13, 2050016.	1.5	11
51	Stability, bifurcation prediction and optimal control of a delayed integer-order small-world network based on the fractional-order PD control policy of variable order. Journal of the Franklin Institute, 2020, 357, 10288-10311.	1.9	10
52	Bifurcation control of smallâ€world networks with delays VIA PID controller. Asian Journal of Control, 2020, 22, 818-830.	1.9	9
53	Stability Switches and Hopf Bifurcation of a Neuron System with both Leakage and Distributed Delays. Neural Processing Letters, 2019, 50, 341-355.	2.0	8
54	Bifurcation control in the delayed fractional competitive web-site model with incommensurate-order. International Journal of Machine Learning and Cybernetics, 2019, 10, 173-186.	2.3	7

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55	Quasi‐synchronization of multilayer heterogeneous networks with a dynamic leader. International Journal of Robust and Nonlinear Control, 2020, 30, 2736-2751.	2.1	7
56	A novel hybrid control technique for bifurcation in an exponential RED algorithm. International Journal of Circuit Theory and Applications, 2020, 48, 1476-1492.	1.3	7
57	Quasi-synchronization of heterogeneous Lur'e networks with uncertain parameters and impulsive effect. Neurocomputing, 2022, 482, 252-263.	3.5	7
58	Dynamical Analysis of a Tri‐Neuron Fractional Network. Asian Journal of Control, 2017, 19, 2042-2050.	1.9	6
59	Complex dynamic behaviors of a congestion control system under a novel $P D^{\frac{1}{2}}$ control law: Stability, bifurcation and periodic oscillations. Chaos, Solitons and Fractals, 2019, 126, 249-258.	2.3	6
60	Dynamic optimal control at Hopf bifurcation of a Newman–Watts model of small-world networks via a new $P D^{\frac{1}{2}}$ scheme. Physica A: Statistical Mechanics and Its Applications, 2019, 532, 121769.	1.2	6
61	Dynamic Optimization of Neuron Systems with Leakage Delay and Distributed Delay via Hybrid Control. Neural Processing Letters, 2019, 50, 2493-2514.	2.0	6
62	Bifurcation and Oscillations of a Multi-ring Coupling Neural Network with Discrete Delays. Cognitive Computation, 2021, 13, 1233-1245.	3.6	6
63	Stability Analysis and Hopf-Type Bifurcation of a Fractional Order Hindmarsh-Rose Neuronal Model. Lecture Notes in Computer Science, 2012, , 217-224.	1.0	5
64	PID control at bifurcation in a single-gene regulatory model with delays. , 2017, , .		5
65	Improving dynamics of integer-order small-world network models under fractional-order PD control. Science China Information Sciences, 2020, 63, 1.	2.7	5
66	Approximate expressions of the bifurcating periodic solutions in a neuron model with delay-dependent parameters by perturbation approach. Cognitive Neurodynamics, 2010, 4, 241-250.	2.3	4
67	Nonlinear dynamics and limit cycle bifurcation of a fractional-order three-node recurrent neural network. , 2012, , .		4
68	Asymptotic Solutions and Circuit Implementations of a Rayleigh Oscillator Including Cubic Fractional Damping Terms. Circuits, Systems, and Signal Processing, 2016, 35, 2041-2053.	1.2	4
69	Stability switches and Hopf bifurcations of an isolated population model with delay-dependent parameters. Applied Mathematics and Computation, 2015, 264, 99-115.	1.4	3
70	Bifurcation Control of a Fractional Order Hindmarsh-Rose Neuronal Model. Lecture Notes in Computer Science, 2013, , 88-95.	1.0	2
71	Nonlinear dynamics in hub-structured genetic regulatory networks. , 2017, , .		2
72	Stability and bifurcation analysis of a gene expression model with small RNAs and mixed delays. Advances in Difference Equations, 2019, 2019, .	3.5	2

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73	Fractional Dynamics Based-Enhancing Control Scheme of a Delayed Predator-Prey Model. IEEE Access, 2021, 9, 59715-59724.	2.6	2
74	Hybrid Control Synthesis for Turing Instability and Hopf Bifurcation of Marine Planktonic Ecosystems With Diffusion. IEEE Access, 2021, 9, 111326-111335.	2.6	2
75	Stability and Hopf Bifurcation of Nearest-Neighbor Coupled Neural Networks With Delays. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	0.7	2
76	Bifurcation analysis of delayed bidirectional associative memory neural networks. , 2013, , .		1
77	Hybrid control of Hopf bifurcation in a congestion control system of dual algorithm. , 2016, , .		1
78	Bifurcation control in a survival red blood cells model via PD controller. , 2017, , .		1
79	Delay-Induced Bifurcation in High-Order Fractional Goodwin Models with Disparate Orders. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950090.	0.7	1
80	PD Control at the Hopf Bifurcation Point of a Neuron System with Inertia and Delay. Journal of Physics: Conference Series, 2019, 1267, 012077.	0.3	1
81	Improving Dynamics of the Single-Genetic Regulatory Networks with Delays via PD Controller. , 2019, , .		1
82	Stability and Bifurcation Analysis in A Single-Gene Regulatory Model with Delays via Dual State Feedback control. , 2019, , .		1
83	PID Control of Hopf Bifurcation of Delayed Small-World Networks with Fractional-Order Dynamics. , 2019, , .		1
84	DYNAMICAL ANALYSIS OF A SELF-CONNECTION FRACTIONAL-ORDER NEURAL NETWORK. Fractals, 2021, 29, 2150138.	1.8	1
85	Range Parameter Induced Bifurcation in a Single Neuron Model with Delay-Dependent Parameters. Lecture Notes in Computer Science, 2010, , 9-16.	1.0	1
86	Bifurcation Analysis of a Ring-Hub-Shaped Neural Network With (n + 1) Neurons and Multiple Delays. , 2021, , .		1
87	A sliding mode control algorithm based on improved super-twisting and its application to quadrotors. Journal of Control and Decision, 2023, 10, 433-442.	0.7	1
88	On oscillatory dynamics of small-RNAs-mediated two-gene regulatory networks. , 2013, , .		0
89	Local Bifurcation Analysis of a Fractional-Order Dynamic Model of Genetic Regulatory Networks with Delays. Communications in Computer and Information Science, 2017, , 507-514.	0.4	0
90	Hopf Bifurcation in a Delayed Two-Neuron Fractional Network with Incommensurate-Order. Communications in Computer and Information Science, 2017, , 477-487.	0.4	0

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91	Hopf Bifurcation in Small-World Network Model via Time-Delayed Feedback Control. , 2018, , .		0
92	Hopf bifurcation in fractional red blood cells model via time-delayed feedback control. , 2018, , .		0
93	Hopf bifurcation of fractional-order small-world networks with time delay. , 2018, , .		0
94	Complex Dynamic Behaviors of A Congestion Control System under A Fractional-order PD Control. Journal of Physics: Conference Series, 2019, 1267, 012091.	0.3	0
95	Hope Bifurcation of a Fractional-order Neural Network with Mixed Delays. , 2019, , .		0
96	Synchronization in Heterogeneous Networks Coupled of LC Oscillators Via Sampled-Data Control. , 2019, , .		0
97	Stability and Hopf Bifurcation of Multi-ring Coupling Neural Network with Delays. , 2019, , .		0
98	PD Control at Hopf Bifurcations in a Neuron System with both Leakage and Distributed Delays. , 2019, , .		0
99	Fractional-order PD Control at Hopf Bifurcations In a Neuron System. , 2019, , .		0
100	Hybrid control on stability and bifurcation for a single neuron network affected by distributed and leakage delay. , 2019, , .		0
101	Hopf Bifurcation Control for a Single Neuron Model with Delay-Dependent Parameters via State Feedback. Lecture Notes in Computer Science, 2011, , 132-138.	1.0	0
102	PID Controller Design Based on the Stabilization and Bifurcation of a Desired Equilibrium for a Delayed Complex System with a Variable Parameter. , 2019, , .		0
103	Stability Analysis and Turing Instability of A SIR Model with Reaction - Diffusion. , 2021, , .		0
104	Turing Instability of Malware Spreading Model with Reaction-diffusion in Cyber-physical System. , 2021, , .		0
105	Turing Instability Analysis of Marine Planktonic Ecosystem Under the Influence of Spatial Heterogeneity. , 2021, , .		0
106	Turing Instability of A Reaction-Diffusion Predator-Prey Model with Holling Type-II Function. , 2021, , .		0
107	Turing Stability Analysis in a Reaction-Diffusion Predator-Prey System with Fear Effect. , 2021, , .		0
108	Stability and Hopf Bifurcation of a Fractional Economic Model with Time Delay. , 2021, , .		0

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109	Hopf Bifurcation of A Kaldor-Kalecki Business Cycle Model with Variable Depreciation Rate and Diffusion Effect. , 2021, , .		0
110	Stability and Hopf Bifurcation of the Fractional Kaldorian Business Cycle Model with Time Delay. , 2021, , .		0
111	Hopf Bifurcation Analysis of A Economic System with Two Time Delays and Diffusion Based on Macroˆ˅Control. , 2021, , .		0
112	Bifurcations control of IS-LM macroeconomic system via PD controller. , 2021, , .		0