

CURRICULUM VITAE

Name: Changjin Xu

Date of Birth: 26 September, 1970

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Qualifications

Ph.D., Central South University, China

M.Sc., Kunming University of Science and Technology, China

B.Sc., Huaihua University, China

Career

1.Professor, Guizhou Key Laboratory of Economics System Simulation, Guizhou University of Finance and Economics, Guiyang 550004, PR China, 2012-present

2.Associate Professor, Guizhou Key Laboratory of Economics System Simulation, Guizhou University of Finance and Economics, Guiyang 550004, PR China, 2010-2011

3.Lecturer, Faculty of Science, Hunan Institute of Engineering, Xiangtan 411004, PR China, 2004-2006

Areas of Interests

- 1.Bifurcation and control of delayed differential equation;
- 2.Theory and applications of functional differential equations;
- 3.Dynamics of neural networks:stability, bifurcation, Hopf bifurcation control and anti-control and so on;
- 4.Mathematical biology: stability, bifurcation, permanence, periodic solution and so

on

Teaching

- 1.2004.9-2005.6, Advanced Mathematics, Ordinary Differential Equations.
- 2.2005.9-2007.6, linear Algebra; Ordinary Differential Equations; Advanced Mathematics; Equations of Mathematical Physics.
- 3.2007.9-2010.6, Advanced Mathematics; Ordinary Differential Equations; Functions of complex variables integral transformations.
- 4.2010.9-2011.6, Advanced Algebra; Advanced Mathematics.
- 5.2011.9-2013.6, Advanced Algebra.
- 6.2013.9-2014.6, Advanced Algebra. Functional Analysis
- 7.2014.9-2015.6, Bifurcation and chaos of nonlinear systems
- 8.2015.9-2018.2, Bifurcation and chaos of nonlinear systems

Awards

1. I won the first in the scientific research score in Guizhou University of Finance and Economics in 2011.
2. I won the first in the scientific research score in Guizhou University of Finance and Economics in 2012.
3. I won the second in the scientific research score in Guizhou University of Finance and Economics in 2013.
4. I won the first in the scientific research score in Guizhou University of Finance and Economics in 2014.
5. I won the second in the scientific research score in Guizhou University of Finance and Economics in 2015.
6. I won the first in the scientific research score in Guizhou University of Finance and Economics in 2016.
7. I won the third prize in the Science and Technology Progress Award of Guizhou province in 2017
8. I won the third prize in the excellent achievement prize of scientific research in Guizhou province colleges and universities(science and technology) in 2014
9. I won the second prize in the excellent achievement prize of scientific research in

Guizhou province colleges and universities(science and technology) in 2016

10. I won the first in the paper in mathematical Annual Meeting of Hunan in 2006.

11. I won the first in the scientific research score in Faculty of Science, Hunan Institute of Engineering in 2010.

12. I won the second prize on the paper in mathematical Annual Meeting of Hunan in 2008.

Publications

1.Changjin Xu, Xianhua Tang and Maoxin Liao, Frequency domain analysis for bifurcation in a simplified tri-neuron BAM network model with two delays, Neural Networks 23(7) (2010)872-880.(**SCI**)

2.Changjin Xu, Xianhua Tang and Maoxin Liao, Global existence of periodic solutions in a six-neuron BAM neural network model with discrete delays, Neurocomputing 74(17) (2011) 3257-3267. (**SCI**)

3.Changjin Xu, Xianhua Tang and Maoxin Liao, Stability and bifurcation analysis of a delayed predator-prey model of prey dispersal in two-patch environments, Applied Mathematics and Computation 216(10)(2010) 2920-2936. (**SCI**)

4.Changjin Xu, Xianhua Tang and Maoxin Liao, Stability and bifurcation analysis of a six-neuron BAM neural network model with discrete delays, Neurocomputing 74 (5) (2011)689-707. (**SCI**)

5.Changjin Xu, Xianhua Tang and Maoxin Liao,Local Hopf bifurcation and global existence of periodic solutions in a TCP system, Applied Mathematics and Mechanics 31 (6) (2010)775-786. (**SCI**)

6.Changjin Xu, Xianhua Tang and Maoxin Liao, Xiaofei He, Bifurcation analysis in a delayed Lokta-Volterra predator-prey model with two delays, Nonlinear Dynamics 66 (1-2) (2011)169-183.(**SCI**)

7.Changjin Xu, Maoxin Liao and Xiaofei He, Stability and Hopf bifurcation analysis for a Lokta-Volterra predator-prey model with two delays, International Journal of Applied Mathematics & Computer Science 21(1) (2011) 97–107.(**SCI**)

8.Changjin Xu and Xiaofei He, Stability and bifurcation analysis in a class of

two-neuron networks with resonant bilinear terms, *Abstract and Applied Analysis*, Volume 2011 (2011), Article ID 697630, 21 pages. **(SCI)**

9. Changjin Xu and Yuanfu Shao, Bifurcations in a predator-prey model with discrete and distributed time delay, *Nonlinear Dynamics* 67(3) (2012) 2207-2223. **(SCI)**

10. Changjin Xu and Maoxin Liao, Bifurcation analysis of an autonomous epidemic predator- prey model with delay, *Annali di Matematica Pura ed Applicata* 193(1)(2014)23-28. **(SCI)**

11. Changjin Xu and Peiluan Li, Dynamical analysis in a delayed predator-prey model with two delays, *Discrete Dynamics in Nature and Society*, Volume 2012, Article ID 652947, 22 pages. **(SCI)**

12. Changjin Xu, Xianhua Tang and Maoxin Liao, Stability and bifurcation analysis on a ring of five neurons with discrete delays, *Journal of Dynamical and Control Systems* 19(2)(2013),237–275. **(SCI)**

13. Changjin Xu, Xianhua Tang and Maoxin Liao, Bifurcation analysis of a delayed predator-prey model of prey migration and predator switching, *Bulletin of the Korean Mathematical Society* 50(2013)353-373. **(SCI)**

14. Changjin Xu and Peiluan Li, Dynamics in a delayed neural network model of two neurons with inertial coupling, *Abstract and Applied Analysis*, Volume 2012, Article ID 689319, 17 pages. **(SCI)**

15. Changjin Xu, Bifurcation analysis for a predator-prey model with time delay and delay dependent parameters, *Abstract and Applied Analysis*, Volume 2012 , Article ID 264870, 20 pages. **(SCI)**

16. Changjin Xu, Qianhong Zhang and Maoxin Liao, Existence and global attractivity of positive periodic solutions for a delayed competitive system with the effect of toxic substances and impulses, *Applications of Mathematics* 58 (3) (2013)309-328. **(SCI)**

17. Changjin Xu, Peiluan Li and Yuanfu Shao , Existence and global attractivity of positive periodic solutions for a Holling II two-prey one-predator system, *Advances in Difference Equations* 84 (2012)1-15. **(SCI)**

18. Changjin Xu, Bifurcation analysis for a delayed sea-air oscillator coupling model for the ENSO, *Acta Physica Sinica* 61 (22) (2012) 220203. **(SCI)**

- 19.Changjin Xu**, Neimark-Sacker bifurcation analysis for a discrete-time system of two neurons, *Abstract and Applied Analysis*, Volume 2012 (2012), Article ID 546356, 16 pages. (SCI)
- 20.Changjin Xu**, Stability and bifurcation analysis in a viral model with delay, *Mathematical Methods in the Applied Sciences* 36(10)(2013)1310-1320. (SCI)
- 21.Changjin Xu**, Yuanfu Shao and Peiluan Li, Uniformly strong persistence for a delayed predator-prey model *Journal of Applied Mathematics*, Volume 2012, Article ID 358918, 7 pages. (SCI)
- 22.Changjin Xu** and Maoxin Liao, Bifurcation behaviors in a delayed three-species food-chain model with Holling type-II functional response, *Applicable Analysis* 92(12)(2013)2468-2486. (SCI)
- 23.Changjin Xu** and Yusen Wu, The effect of time delay on dynamical behavior in an eco-epidemiological model *Journal of Applied Mathematics*, Volume 2012, Article ID 286961, 18 pages. (SCI)
- 24.Changjin Xu** and Yusen Wu, Positive periodic solutions in a discrete time three species competition system, *Journal of Applied Mathematics*, Volume 2013, Article ID 963046, 13 pages. (SCI)
- 25.Changjin Xu** and Peiluan Li, Bifurcation behaviors analysis on a predator-prey model with nonlinear diffusion and delay, *Journal of Dynamical and Control Systems* 20(1) (2014) 105-122.(SCI)
- 26.Changjin Xu** and Yusen Wu, On the nature of bifurcation ratio-dependent predator-prey model with delays, *Journal of Applied Mathematics*, Volume 2013, Article ID 679602, 17 pages, 2013 (SCI)
- 27.Changjin Xu** and Yusen Wu, Dynamics in a Lotka-Volterra predator-prey model with time-varying delays, *Abstract and Applied Analysis*, Volume 2013, Article ID 956703, 9 pages.(SCI)
- 28.Changjin Xu** and Yusen Wu, Permanence in a discrete mutualism model with infinite deviating arguments and feedback controls, *Discrete Dynamics in Nature and Society*, Volume 2013, Article ID 397382, 7 pages. (SCI)
- 29.Changjin Xu** and Qiming Zhang, Bifurcation analysis of a tri-neuron neural

network model in the frequency domain, *Nonlinear Dynamics* 76(1)(2014)33-46. **(SCI)**

30. Changjin Xu and Peiluan Li, On the periodicity and global stability for a discrete delayed predator-prey model, *International Journal of Mathematics* 24(10)(2013) ,1350086.

31. Changjin Xu and Qiming Zhang, Existence and exponential stability of anti-periodic solutions for a high-order delayed Cohen-Grossberg neural networks with impulsive effects, *Neural Processing Letters* 40(3)(2014)227-243. **(SCI)**

32. Changjin Xu and Qiming Zhang, Existence and stability of pseudo almost periodic solutions for shunting inhibitory cellular neural networks with neutral type delays and time-varying leakage delays, *Network:Computation in Neural Systems* 25(4)(2014) 168-192. **(SCI)**

33. Changjin Xu and Yusen Wu, Bifurcation and control of chaos in a chemical system, *Applied Mathematical Modelling* 39 (8)(2015) 2295-2310 . **(SCI)**

34. Changjin Xu and Qiming Zhang, Existence and global exponential stability of anti-periodic solutions for BAM neural networks with inertial term and delay, *Neurocomputing* 153(2015)106-116.

35. Changjin Xu and Qiming Zhang, On anti-periodic solutions for Cohen-Grossberg shunting inhibitory neural networks with time-varying delays and impulses, *Neural Computation* 26(10)(2014) 2328-2349. **(SCI)**

36. Changjin Xu and Qiming Zhang, Anti-periodic solutions in a ring of four neurons with multiple delays, *International Journal of Computer Mathematics* 92(5)(2015) 1086-1100. **(SCI)**

37. Changjin Xu and Qiming Zhang, On the chaos control of the Qi system, *Journal of Engineering Mathematics* 90(1)(2015)67-81. **(SCI)**

38. Changjin Xu, Yusen Wu and lin Lu, Permanence and global attractivity in a discrete Lotka-Volterra predator-prey model with delays, *Advances in Difference Equations* 208(2014)1-15. **(SCI)**

39. Changjin Xu and Maoxin Liao, On anti-periodic solutions for nonlinear Duffing equations with a deviating argument and time-varying delay, *Advances in Mathematical Physics* Volume 2014, Article ID 734632, 7 pages, 2014. **(SCI)**

- 40.Changjin Xu** and Peiluan Li, Oscillations for a delayed predator-prey model with Hassell- Varley type functional response, *Comptes Rendus Biologies* 338(4)(2015)227-240.(**SCI**)
- 41.Changjin Xu** and Yuanfu Shao, Peiluan Li, Bifurcation behavior for an electronic neural network model with two different delays, *Neural Processing Letters* 42(3)(2015) 541-561.(**SCI**)
- 42.Changjin Xu** and Qiming Zhang, Existence and global exponential stability of anti-periodic solutions of high-order bidirectional associative memory (BAM) networks with time-varying delays on time scales, *Journal of Computational Science* 8(2015)48-61. (**SCI**)
- 43. Changjin Xu** and Yusen Zu, Permanence of a two species delayed competitive model with stage structure and harvesting, *Bulletin of the Korean Mathematical Society* 52(4)(2015)1069-1076. (**SCI**)
- 44.Changjin Xu** and Yusen Wu, Anti-periodic solutions for high-order cellular neural networks with mixed delays and impulses, *Advances in Difference Equations* 161(2015) 1-15.(**SCI**)
- 45.Changjin Xu** and Peiluan Li, Dynamics in four-neuron BAM networks with inertia and multiple delays, *Cognitive Computation* 8 (1) (2016) 78-104. (**SCI**)
- 46.Changjin Xu**, Qiming Zhang and Yusen Wu, Existence and exponential stability of periodic solution to fuzzy cellular neural networks with distributed delays, *International Journal of Fuzzy Systems* 18(1)(2016)41-51. (**SCI**)
- 47.Changjin Xu** and Maoxin Liao, Existence and uniqueness of pseudo almost periodic solutions for Lienard-type systems with delays, *Electronic Journal of Differential Equations* 170(2016)1-8. (**SCI**)
- 48. Changjin Xu** and Yusen Wu, On almost automorphic solutions for cellular neural networks with time-varying delays in leakage terms on time scales, *Journal of Intelligent and Fuzzy Systems* 30(2016)423-436. (**SCI**)
- 49.Changjin Xu**, Qiming Zhang and Yusen Wu, Bifurcation analysis in a three-neuron artificial neural network model with distributed delays, *Neural Processing Letters* 44(2)(2016)343-373. (**SCI**)

50.Changjin Xu and Maoxin Liao, Almost automorphic solutions for shunting inhibitory cellular neural networks with time-varying delays, SpringerPlus 2(2015),15 pages.(SCI)

51.Changjin Xu and Peiluan Li, Existence and exponentially stability of anti-periodic solutions for neutral BAM neural networks with time-varying delays in the leakage terms, Journal of Nonlinear Science and Applications 9(3)(2016)1285-1305. (SCI)

52.Changjin Xu and Peiluan Li, Dynamical analysis in exponential RED algorithm with communication delay, Advances in Difference Equations 1(2016)1-24. (SCI)

53.Changjin Xu, Existence and exponential stability of anti-periodic solution in cellular neural networks with time-varying delays and impulsive effects, Electronic Journal of Differential Equation 2016(2)(2016)1-14 .(SCI)

54.Changjin Xu, Qiming Zhang and Peiluan Li, Dynamics in a two-species competitive model of plankton allelopathy with delays and feedback controls, Publicationes Mathematicae Debrecen 89(1-2)(2016)1-22. (SCI)

55.Changjin Xu, Yicheng Pang and Peiluan Li, Anti-periodic solutions of Cohen-Grossberg shunting inhibitory cellular neural networks on time scales, Journal of Nonlinear Science and Applications 9(5)(2016)2376-2388. (SCI)

56.Changjin Xu, Peiluan Li and Yicheng Pang, Global exponential stability for interval general bidirectional associative memory (BAM) neural networks with proportional delays,Mathematical Methods in the Applied Sciences 39(8)(2016)5720-5731. (SCI)

57.Changjin Xu and Maoxin Liao,Yicheng Pang,Existence and p-exponential stability of periodic solution for stochastic shunting inhibitory cellular neural networks with time-varying delays, International Journal of Computational Intelligence Systems 9(5)(2016)945-956.(SCI)

58.Changjin Xu and Maoxin Liao,Yicheng Pang , Existence and convergence dynamics of pseudo almost periodic solutions for Nicholson's blowflies model with time-varying delays and a harvesting term, Acta Applicandae Mathematicae 146(1)(2016)95-112.(SCI)

59. Changjin Xu, Qiming Zhang and Yusen Wu,Bifurcation analysis for two-neuron

networks with discrete and distributed delays, *Cognitive Computation* 8(6)(2016)1103-1118. (SCI)

60. Changjin Xu and Peiluan Li, Yicheng Pang, Exponential stability of almost periodic solutions for memristor-based neural networks with distributed leakage delays, *Neural Computation* 28(12)(2016)2726-2756. (SCI)

61. Changjin Xu, Peiluan Li and Yicheng Pang, Existence and exponential stability of almost periodic solutions for neutral-type BAM neural networks with distributed leakage delays, *Mathematical Methods in the Applied Sciences* 40(6)(2017)2177-2196. (SCI)

62. Changjin Xu and Peiluan Li, Pseudo almost periodic solutions for high-order Hopfield neural networks with time-varying leakage delays, *Neural Processing Letters*, 46(1)(2017)41-58. (SCI)

63. Changjin Xu and Peiluan Li, Global exponential stability of periodic solution for fuzzy cellular neural networks with distributed delays and variable coefficients, *Journal of Intelligent and Fuzzy Systems* 32(2)(2017),2603-2615.(SCI)

64. Changjin Xu and Peiluan Li, Exponential stability for fuzzy BAM cellular neural networks with distributed leakage delays and impulses, *Advances in Difference Equations* 276 (2016) 1-14. (SCI)

65. Changjin Xu and Peiluan Li, pth moment exponential stability of stochastic fuzzy Cohen -Grossberg neural networks with discrete and distributed delays, *Nonlinear Analysis: Modelling and Control* 22(4)(2017),531-544.(SCI)

66. Changjin Xu, Peiluan Li and Yicheng Pang, Finite-time stability for fractional-order bidirectional associative memory neural networks with time delays, *Communications in Theoretical Physics* 67(2)(2017),137-142. (SCI)

67. Changjin Xu and Peiluan Li, Yicheng Pang, Existence and global exponential stability of almost periodic solutions for BAM neural networks with distributed leakage delays on time scales, *Journal of Applied Analysis and Computation* 7(4)(2017),1200-1232. (SCI)

- 68.Changjin Xu** and Peiluan Li, Time effect on the dynamical behavior of a life energy system dynamic model, *Journal of Nonlinear Science and Applications* 10(2)(2017),656-670. **(SCI)**
- 69.Changjin Xu**, Peiluan Li, New stability criteria for high-order neural networks with proportional delay, *Communications in Theoretical Physics* 67(3)(2017)235-240.**(SCI)**
- 70.Changjin Xu**, Peiluan Li, Global exponential convergence of neutral-type Hopfield neural networks with multi-proportional delays and leakage delays, *Chaos, Solitons & Fractals*96(2017),139-144.**(SCI)**
- 71.Changjin Xu**, Delay-induced oscillations in a competitor-competitor-mutualist Lotka Volterra model, *Complexity*, Volume 2017, Article ID 2578043, 12 pages.**(SCI)**
- 72.Changjin Xu**, Global exponential convergence of fuzzy cellular neural networks with proportional delays and impulsive effects, *Journal of Intelligent and Fuzzy Systems* 33(2)(2017)969-977.**(SCI)**
- 73.Changjin Xu**, Global exponential periodicity for fuzzy cellular neural networks with proportional delays, *Journal of Intelligent and Fuzzy Systems* 33(2)(2017),829-839. **(SCI)**
- 74. Changjin Xu**, Peiluan Li, Global exponential convergence of fuzzy cellular neural networks with leakage delays, distributed delays and proportional delays, *Circuits, Systems, and Signal Processing* 37(1)(2018),163-177. **(SCI)**
- 75. Changjin Xu** and Peiluan Li, On anti-periodic solutions for neutral shunting inhibitory cellular neural networks with time-varying delays and D operator, *Neurocomputing* 275(2018),377-382.**(SCI)**
- 76. Changjin Xu** and Peiluan Li,Periodic dynamics for memristor-based bidirectional associative memory neural networks with leakage delays and time-varying delays, *International Journal of Control, Automation and Systems***(Accepted)****(SCI)**
- 77. Changjin Xu** and Maoxin Liao, Dynamical behavior for a stochastic two-species competitive model, *Open Mathematics* 15(2017),1258-1266. **(SCI)**

- 78. Changjin Xu** and Peiluan Li, Global asymptotical stability of almost periodic solutions for a non-autonomous competing model with time-varying delays and feedback controls, *Journal of Biological Dynamics* (**Accepted**)(**SCI**)
- 79. Changjin Xu** and Peiluan Li, On p-th moment exponential stability for stochastic cellular neural networks with distributed delays, *International Journal of Control, Automation and Systems*(**Accepted**)(**SCI**)
- 80. Changjin Xu**,Xianhua Tang and Peiluan Li, Existence and global stability of almost automorphic solutions for shunting inhibitory cellular neural networks with time-varying delays in leakage terms on time scales,*Journal of Applied Analysis and Computation* (**Accepted**) (**SCI**)
- 81. Changjin Xu**, Local and global Hopf bifurcation analysis on simplified bidirectional associative memory neural networks with multiple delays, *Mathematics and Computers in Simulation* (**Accepted**) (**SCI**)
- 82. Changjin Xu**, Lilin Chen, Ting Guo, Peiluan Li, Dynamics of FCNNs with proportional delays and leakage delays, *Advance in Difference Equations* (**Accepted**) (**SCI**)
- 83.Changjin Xu**, Lilin Chen, Ting Guo, Anti-periodic oscillations of bidirectional associative memory(BAM) neural networks with leakage delays, *Journal of Inequalities and Applications* (**Accepted**) (**SCI**)
- 84. Changjin Xu**, Maoxin Liao, Frequency domain analysis of the Hopf bifurcation of a Logistic model with delay, *Journal of Hunan University (Natural Sciences)* 37(3) (2010) 84-87. (**EI**)
- 85.Changjin Xu**, Yuanfu Shao, Existence and global attractivity of periodic solution for enterprise clusters based on ecology theory with impulse,*Journal of Applied Mathematics and Computing* 39(2012)(1-2) 367–384. (**EI**)
- 86.Changjin Xu**, Bifurcation analysis of a delayed predator-prey fishery model with prey reserve in frequency domain, *Proceedings of World Academy of Science, Engineering and Technology* 80 (2011)792-798. (**EI**)
- 87.Changjin Xu**, Qianhong Zhang, Periodic solutions in a delayed competitive system with the effect of toxic substances on time scales, *Proceedings of World*

Academy of Science, Engineering and Technology 74 (2011)877-880. (EI)

88.Changjin Xu, Bifurcations for a single mode laser model with time delay in frequency domain methods. Journal of Computers 7(8) (2012) 1825-1830. (EI)

89.Changjin Xu, Peiluan Li, Bifurcation analysis in a simplified six-neuron BAM neural network with two delays, Journal of Information & Computational Science. 9(13)(2012) 3849-3858. (EI)

90.Changjin Xu, Peiluan Li, Time delayed feedback control of a Rossler chaotic dynamical system, Journal of Information and Computational Science 10(3)2013 821-828. (EI)

91.Changjin Xu, Yusen Wu , Chaos control of a chemical chaotic system via time-delayed feedback control method , International Journal of Automation and Computing 11(4)(2014)392-398 (EI)

92.Changjin Xu, On anti-periodic solutions of a shunting inhibitory cellular neural networks with distributed delays, Journal of Applied Mathematics and Computing 47(1-2)(2015)1-13. (EI)

93.Changjin Xu, Qiming Zhang, Lin Lu, Chaos control in a 3D ratio-dependent food chain system,IAENG International Journal of Applied Mathematics44(3)(2014)117-125.(EI)

94.Changjin Xu, Yusen Wu, Lin Lu, Permanence and global asymptotic stability of a predator-prey model with Holling type II functional response, ICIC Express Letters 8(10)(2014)1739-2744. (EI)

95.Changjin Xu, Yusen Wu, Lin Lu, Dynamics in a coupled FHN model with two different delays, Journal of Computers 9(8)(2014)1834-1842. (EI)

96.Changjin Xu, Yusen Wu, Lin Lu,On permanence and asymptotically periodic solution of a delayed three-level food chain model with Beddington-DeAngelis functional response, IAENG International Journal of Applied Mathematics 44(4)(2014) 163-169. (EI)

97.Changjin Xu, Yusen Wu,Chaos control and bifurcation behavior for a Sprott E system with distributed delay feedback, International Journal of Automation and

Computing 12(2)(2015)182-191. (EI)

98.Changjin Xu, Yusen Wu, Permanence and asymptotically periodic solution of a variable-territory predator-prey system, ICIC Express Letters 9(1)(2015)275-281. (EI)

99.Changjin Xu, Qiming Zhang, Qualitative analysis for a Lotka-Volterra model with time delays, WSEAS Transactions on Mathematics 13(2014)603-614.(EI)

100.Changjin Xu, Qiming Zhang, Permanence and asymptotically periodic solution for a cyclic predator-prey model with sigmoidal type functional response, WSEAS Transactions on Systems 13(2014)668-678. (EI)

1018.Changjin Xu, Qiming Zhang, Anti-periodic solutions for a shunting inhibitory cellular neural networks with distributed delays and time-varying delays in the leakage terms, WSEAS Transactions on Mathematics 13(2014)736-746. (EI)

102.Changjin Xu, Lin Lu, Dynamics in asymptotically periodic food-chain predator-prey with Holling IV type functional response, ICIC Express Letters 9(8)(2015)2241-2246 (EI)

103.Changjin Xu, Qiming Zhang, Peiluan Li, Almost periodic solution analysis in a two-species competitive model of plankton alleopathy with impulses, Journal of Applied Mathematics and Computing 50(1)(2016)437-452. (EI)

104.Changjin Xu, Maoxin Liao, Boundedness and exponential stability of positive solutions for Nicholson-type delay system, IAENG International Journal of Applied Mathematics 45(2)(2015)151-157.(EI)

105.Changjin Xu, Yusen Wu, Bifurcation control for a Duffing oscillator with delayed velocity feedback, International Journal of Automation and Computing 13(6) (2016) 596-606 (EI)

106.Changjin Xu,Maoxin Liao, On the bifurcation behavior of a three-species Lotka-Volterra food chain model with two discrete delays, International Journal of Innovative Computing, Information and Control 10(5) (2014) 1747-1764. (EI)

107.Changjin Xu, Maoxin Liao, On the mean square exponential stability for a stochastic fuzzy cellular neural network with distributed delays and time-varying delays, International Journal of Innovative Computing, Information and Control 11(1)

(2015)

1-10. **(EI)**

108.Changjin Xu, Maoxin Liao, Global asymptotic stability for a stochastic competition and cooperation model of two enterprises, Italian Journal of Pure and Applied Mathematics 35(2015)705-716. **(EI)**

109.Changjin Xu,Yusen Wu, Dynamics in a competitive Lotka-Volterra predator-prey model with multiple delays, Italian Journal of Pure and Applied Mathematics 36(2016)231-244. **(EI)**

110.Changjin Xu, Peiluan Li, Almost periodic solutions for a competition and cooperation model of two enterprises with time-varying delays and feedback controls, Journal of Applied Mathematics and Computing 53(1-2)(2017)397-411. **(EI)**

111.Changjin Xu, Qiming Zhang, Maoxin Liao, Existence and global exponential stability of anti-periodic solutions for shunting inhibitory cellular neural networks with impulses and continuously distributed delays, Journal of Computational and Theoretical Nanoscience 12(10)(2015)3927-3935.**(EI)**

112.Changjin Xu, Maoxin Liao,Existence and exponentially stability of anti-periodic solutions of two-neural networks with infinite delays, Journal of Computational and Theoretical Nanoscience 12(11)(2015) 4593-4600. **(EI)**

113.Changjin Xu, Weina He, On anti-periodic solutions of shunting inhibitory cellular neural networks with time-varying delays and continuously distributed delays, Journal of Computational and Theoretical Nanoscience 13(3) (2016) 1553-1560. **(EI)**

114. Miao Huang, **Changjin Xu(Corresponding author)**, Existence and exponential stability of anti-periodic solutions in bidirectional associative memory neural networks with distributed delays, Journal of Computational and Theoretical Nanoscience 13(1)(2016) 964-970. **(EI)**

115. Changjin Xu, Peiluan Li, The application of feedback control method in chaotic Rossler model,International Journal of Dynamical Systems and Differential Equations 7(3)(2017)185-193. **(EI)**

116. Changjin Xu, Rong Xu, Chaos control in a 3D autonomous system,

International Journal of Innovative Computing, Information and Control
13(4)(2017)1095-1115. **(EI)**

117. Changjin Xu, Peiluan Li, On anti-periodic oscillations of shunting inhibitory cellular neural networks with time-varying delays and continuously distributed delays, International Journal of Intelligent Computing and Cybernetics10(4)(2017)513-529. **(EI)**

118. Changjin Xu, Peiluan Li, Periodic oscillation of memristor-based recurrent neural networks with time-varying delays and leakage delays, International Journal of Intelligent Computing and Cybernetics(**Accepted**). **(EI)**

119. Changjin Xu, Peiluan Li, Dynamics of a discrete Leslie-Gower predator-prey model with feedback controls, International Journal of Dynamical Systems and Differential Equations 8(3)(2018) 217-227. **(EI)**

120. Changjin Xu, Peiluan Li, alpha-stability of fractional-order Hopfield neural networks , International Journal of Dynamical Systems and Differential Equations (**Accepted**). **(EI)**

121. Changjin Xu, Lilin Chen,Peiluan Li, On permanence and global attractivity for a discrete competitive model with delays and feedback controls , Italian Journal of Pure and Applied Mathematics (**Accepted**). **(EI)**

122. Maoxin Liao, Changjin Xu, Xianhua Tang, Stability and Hopf bifurcation for a competition and cooperation model of two enterprises with delay, Communications in Nonlinear Science and Numerical Simulation 19(10)(2014) 3845-3856. **(SCI)**

123. Maoxin Liao,Xianhua Tang, Changjin Xu,General form of some rational recursive sequences, Computers & Mathematics with Applications 56(2)(2010) 360-364. **(SCI)**

124. Maoxin Liao,Xianhua Tang, Changjin Xu,On a conjecture for a higher-order rational difference equation, Advances in Difference Equations. Article ID 394635, 9 pages, 2009. **(SCI)**

125. Maoxin Liao,Xianhua Tang, Changjin Xu, Stability and instability analysis for a ratio-dependent predator-prey system with diffusion effect, Nonlinear Analysis: Real World Applications 12 (3)(2011) 1616–1626.**(SCI)**

126. Maoxin Liao, Xianhua Tang, Zigen Ouyang, **Changjin Xu**, Dynamical properties of a class of higher-order nonlinear difference equations , *Applied Mathematics and Computation* 217(12) (2011) 5476-5479. (SCI)
127. Yuanfu Shao, Ying Li , **Changjin Xu**, Periodic solutions for a class of nonautonomous differential system with impulses and time-varying delays, *Acta Applicandae Mathematicae* 115 (1) (2011) 105-121. (SCI)
128. Maoxin Liao, Xianhua Tang, **Changjin Xu**, Bifurcation analysis for a three-species predator-prey system with two delays, *Communications in Nonlinear Science and Numerical Simulation* 17(1) (2012) 183-194. (SCI)
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Research projects

1. “Bifurcation and chaos of complex networks and their controls” , National Natural Science Foundation of China (No.61673008) 2017-2020, [Principal Investigator](#)
2. “Bifurcation theory in time domain and frequency domain and its application to delay systems” , National Natural Science Foundation of China (No.11261010) 2013-2016. [Principal Investigator](#)
3. “The research on the dynamical behavior of differential models with delays” , Project of High-level Innovative Talents of Guizhou Province ([2016]5651). 2017-2019. Principal Investigator
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6. “Bifurcation theory and its application of delayed differential mode” , Natural Science and Technology Foundation of Guizhou Province (J[2012]2100) 2012-2013. [Principal Investigator](#)
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- 8." The theory of bifurcation and control of functional differential equation and its application in complex networks ", Natural Science and Technology Foundation of Guizhou Province (J[2015]2025) 2015-2018. [Principal Investigator](#)

9. “The research of bifurcation of delayed differential model in economic system” , Doctoral Research Fund of Guizhou University of Finance and Economics (2010) 2010-2011. [Principal Investigator](#)

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11. “The study on the stability and bifurcation of delayed differential equation models” , Scientific Research Start-up Foundation for Province Hunan Institute of Engineering(No.0744) 2007-2009. [Principal Investigator](#)

12. “The mathematical models of the important diseases on spatiotemporal transmission and popular and the study on its dynamical behavior” , Scientific Research Start-up Foundation for Province Hunan Institute of Engineering (No.2010FJ6021) 2008-2009. [Participator](#)

13. “The research on optimization method of the set of points in productive process based on hybrid intelligent algorithm” ,The Outstanding Young Talent Project of the Education Department of Guizhou Province (KY [2013]140) 2013.9.1- 2015.8.30. [Participator](#)

14. “Research on the upgrade of Guizhou resource-based industrial cluster based on the perspective of industrial ecology” , The Education Department of Guizhou Province (No.13ZC128) 2013.9.1- 2015.8.30. [Participator](#)

Membership and activities in professional associations

1.The reviewer for American 《Mathematical Reviews》

2.The reviewer for Germany 《Zentralblatt MATH》

3.The editorial board member of Journal of Convergence Information Technology

4.The editorial board member of International Journal of Applied Mathematics

5.The editorial board member of International Journal of Applied Computational Science and Mathematics

6.The editorial board member of International Journal of Mathematics & Computation

7.The editorial board member of Applications and Applied Mathematics :An International Journal

8.The editorial board member ofAdvances in Pure Mathematics

9.The editorial board member of International Journal of Modern Nonlinear Theory and Application

10. The editorial board member of International Journal of Applied Physics and Mathematics

11. The reviewer for the following international Journals

[1] Neural Networks(SCI)

[2] Journal of the Franklin Institute(SCI)

[3] Computers and Mathematics with Applications(SCI)

[4] Nonlinear Dynamics (SCI)

[5] Neural Processing Letters(SCI)

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