Curriculum Vita

PERSONAL INFORMATION

- **Name**: Yanli Huang
- **Title**: Professor
- **Institution**: School of Computer Science and Technology
- **Affiliation**: Tiangong University (Tianjin Polytechnic University)
- **Address**: No. 399, Binshuixi Road, Xiqing District, Tianjin, 300387
- **E-mail**: huangyanli@tiangong.edu.cn

WORK EXPERIENCE

- **Professor,** *School of Computer Science and Technology*, **Tiangong University**
    - December 2024 - present
- **Associate Professor,** *School of Computer Science and Technology*, **Tiangong University**
    - December 2015 - December 2024
- **Visiting Scholar**, *Department of Design, Manufacture and Engineering Management (DMEM), Faculty of Engineering*, **University of Strathclyde**
    - July 29, 2024 – August 26, 2024
    - Cooperated with Dr. Tse Chiu Wong (Senior Lecturer)
- **Visiting Scholar**, *Department of Design, Manufacture and Engineering Management (DMEM), Faculty of Engineering*, **University of Strathclyde**
    - December 2018 – December 2019
    - Cooperated with Dr. Erfu Yang (Senior Lecturer)
- **Assistant Professor,**, *School of Computer Science and Software*, **Tiangong University**
    - July 2012 - December 2015

EDUCATION

- **Ph.D.**, *School of Mathematics and Systems Science*, **Beihang University**
    - September 2008 – July 2012
    - Major: *Applied mathematics*, Research direction: Computer algebra
    - Supervisors: **Dongming Wang** (European academy of sciences, MOE Cheung Kong Professor of Computer Mathematics, Guangxi Bagui Scholar, CNRS Research director), **Franz Winkler** (RISC Full Professor, vice director)
    - Main experience for study abroad and visiting:
        * October 2010 – October 2011: **Joint Ph.D Student**, *Research Institute for Symbolic Computation (RISC)*, **Johannes Kepler University Linz**, Austria
        * May 2010 – July 2010: **Visiting Scholar**, *Research Institute for Symbolic Computation (RISC)*, **Johannes Kepler University Linz**, Austria
        * October – December 2009: **Visiting Scholar**, *Research Institute for Symbolic Computation (RISC)*, **Johannes Kepler University Linz**, Austria
- **Master study**, preparing for doctoral study in advance, *School of Mathematics and Systems Science*, **Beihang University**

- September 2006 – July 2008
- Supervisor: **Prof. Meng Zhou**
- **B.S.**, *School of Mathmatics and Computer Science*, **Shanxi Normal University**
  - September 2002 – July 2006

RESEARCH INTERESTS

- Complex dynamical networks
- Passivity and synchronization
- Stability theory and applications

PUBLICATIONS

1. **Yanli Huang***, Yuqing Jia, Aperiodically intermittent H_∞ synchronization of coupled complex-valued neural networks with and without parameter uncertainties, *Physica D: Nonlinear Phenomena* (**SCI**), accept, 2025.

2. **Yanli Huang**, Yaxin Gao, Limei Su, Tse Chiu Wong*, Predefined-time synchronization of coupled competitive neural networks, *International Journal of Adaptive Control and Signal Processing* (**SCI**), 39(3): 609-621, 2025.

3. **Yanli Huang***, Aobo Li, General decay anti-synchronization of coupled delayed memristive neural networks with constant and time-varying distributed-delay coupling, *Neurocomputing* (**SCI**), 618: 129058, 2025.

4. **Yanli Huang***, Aobo Li, General decay anti-synchronization and H_∞ anti-synchronization of derivative coupled delayed memristive neural networks with constant and delayed state coupling, *Communications in Nonlinear Science and Numerical Simulation* (**SCI**), 139: 108313, 2024.

5. **Yanli Huang***, Xin Zhao, General decay synchronization of state and spatial diffusion coupled delayed memristive neural networks with reaction-diffusion terms, *International Journal of Control, Automation and Systems* (**SCI**), 22(7): 2313-2326, 2024.

6. **Yanli Huang***, Qing Hao, Finite-time and pinning synchronization of multi-weighted delayed coupled Cohen-Grossberg neural networks, *Neural Computing and Applications* (**SCI**), 36: 483-504, 2024.

7. **Yanli Huang***, Limei Su, General decay anti-synchronization and H_∞ anti-synchronization of coupled reaction-diffusion complex-valued memristive neural networks, *Communications in Nonlinear Science and Numerical Simulation*(**SCI**), 126, 107451, 2023.

8. **Yanli Huang***, Xin Xiao, Yihao Wang, Jiang Li, Event-triggered pinning synchronization and robust pinning synchronization of coupled neural networks with multiple weights, *International Journal of Adaptive Control and Signal Processing* (**SCI**), 37(3): 584-602, 2023.

9. **Yanli Huang***, Fang Wu, Finite-time passivity and synchronization of coupled complex-valued memristive neural networks, *Information Sciences* (**SCI**), 580: 775-800, 2021.

10. **Yanli Huang**, Shanrong Lin*, Xiwei Liu, H_∞ synchronization and robust H_∞ synchronization of coupled neural networks with non-identical nodes, *Neural Processing Letters* (**SCI**), 53(5): 3467-3496, 2021.

11. **Yanli Huang***, Shanrong Lin, Erfu Yang, Event-triggered passivity of multi-weighted coupled delayed reaction-diffusion memristive neural networks with fixed and switching topologies, *Communications in Nonlinear Science and Numerical Simulation*(**SCI**), 89: 105292, 2020.

12. **Yanli Huang***, Jie Hou, Erfu Yang, Passivity and synchronization of coupled reaction-diffusion complex-valued memristive neural networks, *Applied Mathematics and Computation*(**SCI**), 379: 125271, 2020.

13. **Yanli Huang***, Jie Hou, Erfu Yang, General decay lag anti-synchronization of multi-weighted delayed coupled neural networks with reaction-diffusion terms, *Information Sciences* (**SCI**), 511: 36-57, 2020.

14. **Yanli Huang***, Jie Hou, Erfu Yang, General decay anti-synchronization of multi-weighted coupled neural networks with and without reaction-diffusion terms, *Neural Computing and Applications* (**SCI**), 32(12): 8417-8430, 2020.

15. **Yanli Huang***, Shuihan Qiu, Shunyan Ren, Finite-time synchronization and passivity of coupled memristive neural networks, *International Journal of Control* (**SCI**), 93(12): 2824-2837, 2020.

16. **Yanli Huang**, Shuihan Qiu, Shunyan Ren, Zewei Zheng*, Fixed-time synchronization of coupled Cohen-Grossberg neural networks with and without parameter uncertainties, *Neurocomputing* (**SCI**), 315: 157-168, 2018.

17. **Yanli Huang**, Weizhong Chen, Shunyan Ren, Zewei Zheng*, Analysis and pinning control for generalized synchronization of delayed coupled neural networks with different dimensional nodes, *Journal of the Franklin Institute* (**SCI**), 355: 5968-5997, 2018.

18. **Yanli Huang**, Weizhong Chen, Jianming Wang*, Finite-time passivity of delayed multi-weighted complex dynamical networks with different dimensional nodes, *Neurocomputing* (**SCI**), 312: 74-89, 2018.

19. **Yanli Huang**, Weizhong Chen, Shunyan Ren, Zewei Zheng*, Passivity and synchronization of coupled reaction-diffusion Cohen-Grossberg neural networks with fixed and switching topologies, *Neural Processing Letters* (**SCI**), 49(3): 1433-1457, 2019.

20. **Yanli Huang***, Shunyan Ren, Passivity and passivity-based synchronization of switched coupled reaction-diffusion neural networks with state and spatial diffusion couplings, *Neural Processing Letters* (**SCI**), 47: 347-363, 2018.

21. **Yanli Huang***, Shunyan Ren, Jigang Wu, Beibei Xu, Passivity and synchronization of switched coupled reaction-diffusion neural networks with non-delayed and delayed couplings, *International Journal of Computer Mathematics* (**SCI**), 96(9): 1702-1722, 2019.

22. **Yanli Huang***, Shuxue Wang, Shunyan Ren, Pinning exponential synchronization and passivity of coupled delayed reaction-diffusion neural networks with and without parametric uncertainties, *International Journal of Control* (**SCI**), 92(5): 1167-1182, 2019.

23. **Yanli Huang***, Shuxue Wang, Synchronisation in an array of spatial diffusion coupled reaction-diffusion neural networks via pinning control, *International Journal of Systems Science* (**SCI**), 49(5): 1103-1118, 2018.

24. **Yanli Huang***, Beibei Xu, Shunyan Ren, Analysis and pinning control for passivity of coupled reaction-diffusion neural networks with nonlinear coupling, *Neurocomputing* (**SCI**), 272: 334-342, 2018.

25. **Yanli Huang***, L. X. Châu Ngô, Franz Winkler, Rational general solutions of higher order algebraic ODEs, *Journal of System Science and Complexity* (**SCI**), 26(2): 261-280, 2013.

26. **Yanli Huang***, Dongming Wang, Computing intersection and self-intersection loci of parametrized surfaces using regular systems and Gröbner bases, *Computer Aided Geometric Design* (**SCI**) 28(9): 566-581, 2011.

27. Limei Su, **Yanli Huang***, Antisynchronization and generalized pinning control of multi-weighted coupled complex-valued delayed memristive neural networks, *Discrete Dynamics in Nature and Society* (**SCI**), 5220356, 2023.

28. Qing Hao, **Yanli Huang***, Analysis and aperiodically intermittent control for synchronization of multi-weighted coupled Cohen-Grossberg neural networks without and with coupling delays, *Information Sciences* (**SCI**), 607: 377-400, 2022.

29. Fang Wu, **Yanli Huang***, Finite-time synchronization and H_∞ synchronization of coupled complex-valued memristive neural networks with and without parameter uncertainty, *Neurocomputing* (**SCI**), 469: 163-179, 2022.

30. Jianmou Lu, **Yanli Huang***, Shunyan Ren, General decay synchronization and H_∞ synchronization of spatial diffusion coupled delayed reaction-diffusion neural networks, *ISA Transactions* (**SCI**), 101: 234-245, 2020.

31. Jianmou Lu, **Yanli Huang***, Shunyan Ren, General decay synchronization and H_∞ synchronization of multi-weighted coupled reaction-diffusion neural networks, *International Journal of Control, Automation and Systems* (**SCI**), 18(5): 1250-1263, 2020.

32. Yihao Wang, **Yanli Huang***, Erfu Yang, Event-triggered communication for passivity and synchronization of multi-weighted coupled neural networks with and without parameter uncertainties, *IET Control Theory & Applications* (**SCI**), 14(9): 1228-1239, 2020.

33. Jie Hou, **Yanli Huang***, Shunyan Ren, Anti-synchronization analysis and pinning control of multi-weighted coupled neural networks with and without reaction-diffusion terms, *Neurocomputing* (**SCI**), 330: 78-93, 2019.

34. Jie Hou, **Yanli Huang***, Erfu Yang, ψ-type stability of reaction-diffusion neural networks with time-varying discrete delays and bounded distributed delays, *Neurocomputing* (**SCI**), 340: 281-293, 2019.

35. Jie Hou, **Yanli Huang***, Erfu Yang, Finite-time anti-synchronization of multi-weighted coupled neural networks with and without coupling delays, *Neural Processing Letters* (**SCI**), 50(3), 2871-2898, 2019.

36. Shanrong Lin, **Yanli Huang***, Erfu Yang, Passivity and synchronization of coupled different dimensional delayed reaction-diffusion neural networks with Dirichlet boundary conditions, *Complexity* (**SCI**), 2020: 4987962, 2020.

37. Shanrong Lin, **Yanli Huang***, Shunyan Ren, Event-triggered passivity and synchronization of delayed multiple-weighted coupled reaction-diffusion neural networks with non-identical nodes, *Neural Networks* (**SCI**), 121: 259-275, 2020.

38. Shanrong Lin, **Yanli Huang***, Shunyan Ren, Analysis and pinning control for passivity of coupled different dimensional neural networks, *Neurocomputing* (**SCI**), 321: 187-200, 2018.

39. Weizhong Chen, **Yanli Huang***, Shunyan Ren, Passivity and synchronization of coupled reaction-diffusion Cohen-Grossberg neural networks with state coupling and spatial diffusion coupling, *Neurocomputing* (**SCI**), 275: 1208-1218, 2018.

40. Weizhong Chen, **Yanli Huang***, Shunyan Ren, Passivity and robust passivity of delayed Cohen-Grossberg neural networks with and without reaction-diffusion terms, *Circuits, Systems, and Signal Processing* (**SCI**), 37(7): 2772-2804, 2018.

41. Weizhong Chen, **Yanli Huang***, Shunyan Ren, Passivity of coupled memristive delayed neural networks with fixed and adaptive coupling weights, *Neurocomputing* (**SCI**), 313:346-363, 2018.

42. Shuihan Qiu, **Yanli Huang***, Shunyan Ren, Finite-time Synchronization of multi-weighted complex dynamical networks with and without coupling delay, *Neurocomputing* (**SCI**), 275: 1250-1260, 2018.

43. Shuihan Qiu, **Yanli Huang***, Shunyan Ren, Finite-time synchronization of coupled Cohen-Grossberg neural networks with and without coupling delays, *Journal of the Franklin Institute* (**SCI**), 355: 4379-4403, 2018.

44. Shuxue Wang, **Yanli Huang***, Beibei Xu, Pinning synchronization of spatial diffusion coupled reaction-diffusion neural networks with and without multiple time-varying delays, *Neurocomputing* (**SCI**), 227: 92-100, 2016.

45. Beibei Xu, **Yanli Huang***, Jinliang Wang, Puchong Wei, Shunyan Ren, Passivity of linearly coupled neural networks with reaction-diffusion terms and switching topology, *Journal of the Franklin Institute* (**SCI**), 353(8): 1882-1898, 2016.

46. Xiaoliang Li, **Yanli Huang***, Zewei Zheng, Wanyou Cheng, Computing switching surfaces in optimal control based on triangular decomposition, *East Asian Journal on Applied Mathematics* (**SCI**), 4(4): 345-367, 2014.

47. **Yanli Huang***, Dongming Wang, Computing self-intersection loci of parametrized surfaces using regular systems and Gröbner bases, *Proceedings of SYNASC 2009, IEEE Computer Society* (**EI, ISTP**), Los Alamitos, CA, pp. 28-36, 2009.

48. **Yanli Huang**, Jigang Wu*, Special solvable second order algebraic ordinary differential equations, *Journal of Computational Information Systems* (**EI**), 10(3): 1271-1278, 2014.

49. **Yanli Huang***, Xianliang Lv, Gen Chen, General decay projective synchronization of memristor-based fractional-order neural network, *Proceedings of the 37th Chinese Control and Decision Conference (CCDC 2025)* (**EI**), Xiamen, May 16-19, accept, 2025.

50. **Yanli Huang***, Yuhao Zhou, Synchronization of coupled complex-valued Cohen-Grossberg neural networks via aperiodically intermittent control, *Proceedings of the 37th Chinese Control and Decision Conference (CCDC 2025)* (**EI**), Xiamen, May 16-19, accept, 2025.

51. **Yanli Huang***, Chengqi Zhai, Finite-time passivity of coupled different dimensional neural networks with constant distributed-delay coupling, *Proceedings of the 37th Chinese Control and Decision Conference (CCDC 2025)* (**EI**), Xiamen, May 16-19, accept, 2025.

52. **Yanli Huang***, Wenjing Duan, Tse Chiu Wong, Robust general decay synchronization of state and spatial diffusion coupled reaction-diffusion memristive neural networks, *Proceedings of 2024 International Annual Conference on Complex Systems and Intelligent Science (CSIS-IAC)* (**EI**), Guangzhou, China, September 20-22, pp. 616-621, 2024.

53. **Yanli Huang***, Yaxin Gao, Xusong Li, Tse Chiu Wong, Predefined-time synchronization of coupled different dimensional neural networks, *Proceedings of the 36th Chinese Control and Decision Conference (CCDC 2024)* (**EI**), Xi'an, May 25-27, 1864-1869, 2024.

54. **Yanli Huang***, Yuqing Jia, Tse Chiu Wong, Aperiodically intermittent control synchronization of coupled complex-valued neural networks, *Proceedings of the 36th Chinese Control and Decision Conference (CCDC 2024)* (**EI**), Xi'an, May 25-27, 1329-1334, 2024.

55. **Yanli Huang***, Xin Zhao, Jianmou Lu, Jiang Li, General decay synchronization of state and spatial diffusion coupled reaction-diffusion memristive neural networks, *Proceedings of 2022 China Automation Congress (CAC 2022)* (**EI**), Xiamen, November 25-27, pp. 1156-1161, 2022.

56. **Yanli Huang***, Jie Hou, Shunyan Ren, Erfu Yang, Passivity and synchronization of coupled complex-valued memristive neural networks, *Proceedings of the 2019 IEEE Symposium Series on Computational Intelligence* (**EI**), Xiamen, China, December 6-9, pp. 2152-2159, 2019.

57. **Yanli Huang**, Jianming Wang*, Erfu Yang, Robust passivity of coupled Cohen-Grossberg neural networks with reaction-diffusion terms, *Proceedings of the 25th IEEE International Conference on Automation and Computing* (**EI**), Lancaster, UK, September 5-7, 154394, 2019.

58. **Yanli Huang***, Beibei Xu, Shunyan Ren, Jinliang Wang, Weizhong Chen, Global exponential synchronization of nonlinearly coupled reaction-diffusion neural networks, *Proceedings of the 29th Chinese Control and Decision Conference* (**EI**), Chongqing, May 28-30, pp. 4816-4821, 2017.

59. **Yanli Huang**, Beibei Xu, Xiaoliang Li*, Properties of rational general solutions for first order multivariate autonomous rational differential systems, *Journal of Information and Computational Science* (**EI**), 12(6): 2197-2204, 2015.

60. Beibei Xu, **Yanli Huang**, Jinliang Wang*, Puchong Wei, Shunyan Ren, Passivity of linearly coupled reaction-diffusion neural networks with switching topology and time-varying delay, *Neurocomputing* (**SCI**), 182, 274-283, 2016.

61. **Yanli Huang***, L. X. Châu Ngô, Franz Winkler, Rational general solutions of trivariate rational differential systems, *Mathematics in Computer Science* (Springer Basel Journal), 6(4): 361-374, 2012.

62. Wenjing Duan, **Yanli Huang***, Tse Chiu Wong, Predefined-time synchronization of coupled memristive competitive neural networks, *Proceedings of 2024 International Annual Conference on Complex Systems and Intelligent Science (CSIS-IAC)* (**EI**), Guangzhou, China, September 20-22, pp. 610-615, 2024.

63. Aobo Li, **Yanli Huang***, Yan Liu, Zewei Zheng, General decay anti-synchronization of coupled delayed memristive neural networks, *Proceedings of The 38th Youth Academic Annual Conference of Chinese Association of Automation (YAC 2023)* (**EI**), Hefei, China, August 27-29, pp. 142-147, 2023.

64. Xin Zhao, **Yanli Huang***, Tse Chiu Wong, General decay projective synchronization of drive-response reaction-diffusion memristive neural networks, *Proceedings of The 13th IEEE International Conference on CYBER Technology in Automation, Control, and Intelligent Systems (IEEE-CYBER 2023)* (**EI**), Qinhuangdao, China, July 11-14, pp. 1253-1257, 2023.

65. Qing Hao, **Yanli Huang***, Synchronization analysis and aperiodically intermittent synchronization control of multi-weighted coupled Cohen-Grossberg neural networks, *Proceedings of 2021 China Automation Congress (CAC 2021)* (**EI**), Beijing, October 22-24, pp. 3317-3322, 2021.

66. Limei Su, **Yanli Huang***, Jinliang Wang, Anti-synchronization of multi-weighted coupled complex-valued delayed memristive neural networks with coupling delays, *Proceedings of the first International Conference on Neuromorphic Computing (ICNC2021)* (**EI**), Wuhan, October 15-17, pp. 412-417, 2021.

67. Xin Xiao, **Yanli Huang***, Jinliang Wang, Yihao Wang, Event-triggered pinning synchronization of multi-weighted coupled neural networks without and with time delays, *Proceedings of the first International Conference on Neuromorphic Computing (ICNC2021)* (**EI**), Wuhan, October 15-17, pp. 418-423, 2021.

68. Fang Wu, **Yanli Huang***, Robust finite-time passivity and synchronization of coupled complex-valued memristive neural networks with parameter uncertainty, *Proceedings of the 40th Chinese Control Conference* (**EI**), Shanghai, July 26-28, pp. 824-829, 2021.

69. Yihao Wang, **Yanli Huang***, Shunyan Ren, Jianmou Lu, Dongfang Liu, Synchronization and H_∞ synchronization of multi-weighted coupled neural networks with event-triggered communication, *Proceedings of the 38th Chinese Control Conference*(**EI**), Guangzhou, July 27-30, pp. 912-917, 2019.

70. Jianmou Lu, **Yanli Huang***, Shunyan Ren, Dongfang Liu, General decay synchronization of multi-weighted coupled reaction-diffusion neural networks with and without time-varying delays, *Proceedings of the 38th Chinese Control Conference*(**EI**), Guangzhou, July 27-30, pp. 904-909, 2019.

71. Jie Hou, **Yanli Huang***, Jinliang Wang, Shunyan Ren, Dongfang Liu, Anti-synchronization analysis and pinning control of coupled neural networks with multiple weights, *Proceedings of the 8th Annual IEEE International Conference on CYBER Technology in Automation, Control, and Intelligent Systems*(**EI**), Tianjin, July 19-23, pp. 895-900, 2018.

72. Shanrong Lin, **Yanli Huang***, Jinliang Wang, Shunyan Ren, Dongfang Liu, Passivity of coupled neural networks with different dimensional nodes, *Proceedings of the 8th Annual IEEE International Conference on CYBER Technology in Automation, Control, and Intelligent Systems*(**EI**), Tianjin, July 19-23, pp. 775-780, 2018.

73. Weizhong Chen, **Yanli Huang***, Jinliang Wang, Shunyan Ren, Passivity and robust passivity of reaction-diffusion Cohen-Grossberg neural networks with multiple time-varying delays, *Proceeding of the 29th Chinese Control and Decision Conference* (**EI**), Chongqing, May 28-30, pp.40-45, 2017.

74. Shunhan Qiu, **Yanli Huang***, Jinliang Wang, Shunyan Ren, Dongfang Liu, Finite-time synchronization of coupled Cohen-Grossberg neural networks with time-varying delays, *Proceedings of the 36th Chinese Control Conference*(**EI**), Dalian, July 26-28, pp. 3966-3971, 2017.

75. Beibei Xu, **Yanli Huang***, Jinliang Wang, Puchong Wei, Shunyan Ren, Synchronization of coupled neural networks with reaction-diffusion terms and switching topology, *Proceedings of the 28th Chinese Control and Decision Conference* (**EI**), Yinchuan, May 28-30, pp. 5927-5932, 2016.

76. Shuxue Wang*, **Yanli Huang**, Jinliang Wang, Meng Xu, Shunyan Ren, Pinning control strategies for synchronization of complex dynamical networks with spatial diffusion coupling, *Proceedings of the 35th Chinese Control Conference* (**EI**), Chengdu, July 27-29, pp. 3555-3560, 2016.

77. Shanrong Lin, Xiwei Liu, **Yanli Huang***, Event-triggered synchronization and H_∞ synchronization of coupled delayed reaction-diffusion memristive neural networks, *Mathematical Methods in the Applied Sciences* (**SCI**), 46(8): 9079-9102, 2023.

78. Shanrong Lin, Xiwei Liu, **Yanli Huang***, Event-triggered passivity and synchronization of coupled reaction-diffusion neural networks with and without time-varying delay, *Transactions of the Institute of Measurement and Control* (**SCI**), 44(11): 2117-2140, 2022.

79. Shanrong Lin, Xiwei Liu*, **Yanli Huang**, Event-triggered H_∞ synchronization of directed and switched coupled stochastic delayed neural networks with multi-weights, *IET Control Theory and Applications* (**SCI**), 16(10): 995-1014, 2022.

80. Puchong Wei, Jinliang Wang*, **Yanli Huang**, Beibei Xu, Shunyan Ren, Passivity analysis of impulsive coupled reaction-diffusion neural networks with and without time-varying delay, *Neurocomputing* (**SCI**), 168: 13-22, 2015.

81. Puchong Wei, Jinliang Wang*, **Yanli Huang**, Beibei Xu, Shunyan Ren, Impulsive control for the synchronization of coupled neural networks with reaction-diffusion terms, *Neurocomputing* (**SCI**), 207: 539-547, 2016.

82. Meng Xu, Jinliang Wang*, **Yanli Huang**, Puchong Wei, Shuxue Wang, Pinning synchronization of complex dynamical networks with and without time-varying delay, *Neurocomputing* (**SCI**), 266: 263-273, 2017.

83. Zhen Qin, Jinliang Wang*, **Yanli Huang**, Shunyan Ren, Synchronization and H_∞ synchronization of multi-weighted complex delayed dynamical networks with fixed and switching topologies, *Journal of the Franklin Institute* (**SCI**), 354(15): 7119-7138, 2017.

84. Zhen Qin, Jinliang Wang*, **Yanli Huang**, Shunyan Ren, Analysis and adaptive control for robust synchronization and H_∞ synchronization of complex dynamical networks with multiple time-delays, *Neurocomputing* (**SCI**), 289: 241-251, 2018.

85. Xiaoxiao Zhang, Jinliang Wang*, **Yanli Huang**, Shunyan Ren, Analysis and pinning control for passivity of multi-weighted complex dynamical networks with fixed and switching topologies, *Neurocomputing* (**SCI**), 275: 958-968, 2018.

86. Xiaoxiao Zhang, Jinliang Wang*, **Yanli Huang**, Shunyan Ren, Analysis and adaptive control for synchronization and H_∞ synchronization of coupled partial differential systems with multiple time-varying delays, *Journal of the Franklin Institute* (**SCI**), 355: 4351-4378, 2018.

87. Qing Wang, Jinliang Wang*, **Yanli Huang**, Shunyan Ren, Generalized lag synchronization of multiple weighted complex networks with and without time delay, *Journal of the Franklin Institute* (**SCI**), 355: 6597-6616, 2018.

88. Qing Wang, Jinliang Wang*, Shunyan Ren, **Yanli Huang**, Analysis and adaptive control for lag H_∞ reaction-diffusion neural networks synchronization of coupled reaction-diffusion neural networks, *Neurocomputing* (**SCI**), 319: 144-154, 2018.

89. Dongyang Wang, Jinliang Wang*, Shunyan Ren, **Yanli Huang**, Output synchronization and H_∞ output synchronization of complex dynamical networks with multiple derivative couplings, *Journal of the Franklin Institute* (**SCI**), 356: 407-440, 2019.

90. Shunyan Ren, Jigang Wu, Shuxue Wang, **Yanli Huang**, Passivity and pinning control of coupled neural networks with and without time-varying delay, *Transactions of the Institute of Measurement and Control* (**SCI**), 40(9): 2708-2717, 2018.

91. Puchong Wei, Jinliang Wang, **Yanli Huang**, Beibei Xu, Input and output passivity of coupled reaction-diffusion neural networks with impulsive effects, *Proceedings of the 34th Chinese Control Conference* (**EI**), Hangzhou, July 28-30, pp. 3512-3517, 2015.

92. Meng Xu, Jinliang Wang, **Yanli Huang**, Shuxue Wang, Shunyan Ren, Pinning synchronization of coupled neural networks with multiple time-varying delays and reaction-diffusion terms, *Proceedings of the 35th Chinese Control Conference* (**EI**), Chengdu, July 27-29, pp. 7267-7272, 2016.

93. Zhen Qin, Jinliang Wang*, **Yanli Huang**, Shunyan Ren, Synchronization of multi-weighted complex dynamical networks with fixed and switching topologies, *Proceedings of the 36th Chinese Control Conference*(**EI**), Dalian, July 26-28, pp. 1417-1422, 2017.

94. Xiaoxiao Zhang*, Jinliang Wang, **Yanli Huang**, Shunyan Ren. Passivity analysis of multi-weighted complex dynamical networks with fixed and switching topologies, *Proceedings of the 36th Chinese Control Conference*(**EI**), Dalian, July 26-28, pp. 7695-7700, 2017.

95. Dongming Wang, Chenqi Mou, Xiaoliang Li, Meng Jin, Jing Yang, **Yanli Huang** (in the order of surname's strokes in Chinese). Polynomial Algebra (**Chinese book for graduate students**). *Higher Education Press*, Beijing, 2011.

PROJECTS

1. The Royal Society - International Exchanges 2022, Project No. R221201, March 2023 – March 2026, £**11,851.00**, ongoing, *Co-Applicant*.

2. National Natural Science Foundation of China (**NSFC**), Project No.62173244, January 2022 – December 2025, **RMB 754,000**, ongoing, *The First Participant*.

3. Natural Science Foundation of Tianjin City of China, Project No.18JCQNJC74300, April 2018 – March 2021, RMB **60,000**, completed, *Principal Investigator*.

4. National Natural Science Foundation of China (**NSFC**), Project No.11501411, January 2016 – December 2018, **RMB 216,000**, completed, *Principal Investigator*.

5. National Natural Science Foundation of China (**NSFC**), Project No.11326211, January 2014 – December 2014, **RMB 30,000**, completed, *Principal Investigator*.

6. Open Fund of Guangxi Key Laboratory of Hybrid Computation and IC Design Analysis, Project No. HCIC201704, January 2018 – December 2019, **RMB 20,000**, completed, *Principal Investigator*.

7. Open Fund of Guangxi Key Laboratory of Hybrid Computation and IC Design Analysis, Project No. HCIC201302, January 2014 – July 2015, **RMB 35,000**, completed, *Principal Investigator*.

8. Doctoral Scientific Research Foundation of Tianjin Polytechnic University, Project No.124030274, October 2012 – October 2013, **RMB 20,000**, completed, *Principal Investigator*.

9. National Natural Science Foundation of China (**NSFC**), Project No.61773285, January 2018 – December 2021, **RMB 640,000**, ongoing, *The First Participant*.

10. National Natural Science Foundation of China (**NSFC**), Project No.11401018, January 2015 – December 2017, **RMB 220,000**, completed, *The First Participant.*

11. Natural Science Foundation of Tianjin City of China, Project No.19JCYBJC18700, April 2019 – March 2022, **RMB 100,000**, ongoing, *The First Participant.*

12. National Natural Science Foundation of China (**NSFC**), Project No.61302127, January 2014 – December 2016, RMB **240,000**, completed, *The Second Participant.*

13. National Natural Science Foundation of China (**NSFC**), Project No.11326198, January 2014 – December 2014, RMB **30,000**, completed, *The Second Participant.*

14. Natural Science Foundation of Tianjin of China, Project No. 17JCYBJC15100, April 2017 – March 2020, RMB **100,000**, ongoing, *The Second Participant.*

15. Natural Science Foundation of Tianjin of China, Project No. 15JCQNJC04100, April 2015 – March 2018, RMB **60,000**, completed, *The Third Participant.*

EXCELLENT MASTER STUDENTS

1. Beibei Xu
   - September, 2014 - March, 2017
   - November 2016: **National Scholarship** for Master Graduate Students
   - June 2017: **Excellent Master's Thesis** of Tiangong University

2. Shuxue Wang
   - September, 2015 - March, 2018
   - November 2017: **National Scholarship** for Master Graduate Students
   - June 2018: **Excellent Master's Thesis** of Tiangong University
   - March 2018: **Outstanding graduates** of Tiangong University

3. Weizhong Chen
   - September, 2016 - March, 2019
   - November 2017: **National Scholarship** for Master Graduate Students
   - March 2019: **Outstanding graduates** of Tiangong University

4. Shuihan Qiu
   - September, 2016 - March, 2019
   - November 2017: **National Scholarship** for Master Graduate Students

5. Jie Hou
   - September, 2017 - March, 2020
   - November 2018: **National Scholarship** for Master Graduate Students

6. Jianmou Lu
   - September, 2018 - - March, 2021
   - November 2020: **National Scholarship** for Master Graduate Students

ACADEMIC EXPERIENCES

- **CONFERENCES**

    1. May 25-27, 2024, *Xi'an*, China, **CCDC 2024** (The 36th Chinese Control and Decision Conference)

    2. August 27-29, 2023, *Hefei*, China, **YAC 2023** (The 38th Youth Academic Annual Conference of Chinese Association of Automation)

    3. July 11-14, 2023, *Qinghuangdao*, China, **IEEE-CYBER 2023** (The 13th IEEE International Conference on CYBER Technology in Automation, Control, and Intelligent Systems)

    4. July 26-28, 2021, *Shanghai*, China: **CCC 2021** (the 40th Chinese Control Conference)

    5. September 5-7, 2019, *Lancaster*, UK: **ICAC 2019** (the 25th IEEE International Conference on Automation and Computing)

    6. July 2, 2017, *Tianjin*, China: **TGC 2017** (4th CCF YOCSEF Tianjin Graduate Conference), chairman

    7. July 27-29, 2016, *Chengdu*, China: **CCC 2016** (35th Chinese Control Conference)

    8. August 3-9, 2015, *Beijing*, China: **SSSC 2015** (4th Summer School in Symbolic Computation)

    9. February 2-4, 2015, *Nanning*, China: **GC 2015** (International Seminar on Geometric Computation)

    10. November 23-29, 2014, *Beijing*, China: **CDZ-CRC 2014** (CDZ Workshop GZ1115 on Computation and Reasoning with Constraints)

    11. October 11-13, 2013, *Tianjin*, China: **NCTCS 2013** (National Conference on Theoretical Computer Science)

    12. October 10-12, 2012, *Beijing*, China: **PAS 2012** (International Seminar on Program Verfication, Automated Debugging and Symbolic Computation)

    13. August 17-19, 2012, *Hainan*, China: **NCTCS 2012** (National Conference on Theoretical Computer Science)

    14. October 19-21, 2011, *Beijing*, China: **MACIS 2011** (Fourth International Conference on Mathematical Aspects of Computer and Information Sciences)

    15. June 21-24, 2011, *Hagenberg/Linz*, Austria: **CAI 2011** (4th International Conference on Algebraic Informatics)

    16. May 30-June 32011, *Stockholm*, Sweden: **MEGA 2011** (Effective Methods in Algebraic Geometry)

    17. February 9-11, 2011, *Linz*, Austria: **DEAM 2** (Second Workshop on Differential Equations by Algebraic Methods)

    18. June 28-July 9, 2010, *Hagenberg*, Austria: The **Fifth** RISC/SCIEnce Training School in Symbolic Computation

    19. September 26-29, 2010, *Timisoara*, Romania: **SYNASC 2009** (11th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing)

    20. August 10-16, 2009, *Chengdu*, China: **SSSC 2008** (3rd Summer School in Symbolic Computation)

    21. May 11-13, 2009, *Beijing*, China: **ICMM 2009** (International Conference on Mathematics Mechanization - In honor of Prof.Wen-Tsun Wu's ninetieth birthday)

    22. April 28-30, 2008, *Beijing*, China: **SCC 2008** (First International Conference on Symbolic Computation and Cryptography)

23. April 25-27, 2008, *Beijing*, China: **Chinese-SALSA 2008** (The Second Chinese-SALSA Workshop: France/China Workshop on Solvers for Algebraic Systems and Applications)

24. April 3-5, 2008, *Shanghai*, China: **SRATC 2008** (International Workshop on Symbolic Real Algebra and Trustworthy Computing)

- **TALKS**

  1. *Predefined-Time Synchronization of Coupled Different Dimensional Neural Networks*, **University of Strathclyde**, Glasgow, UK, August 20, 2024

  2. *Robust Passivity of Coupled Cohen-Grossberg Neural Networks with Reaction-Diffusion Terms*, **ICAC 2019**, Lancaster, UK, September 5-7, 2019

  3. *Rational General Solutions of Higher Order Algebraic ODEs*, **CDZ-CRC 2014**, Beijing, China, November 28, 2014

  4. *Classification of Higher Order AODEs with respect to Rational Solvability.* **NCTCS 2012**, Hainan, China, August 19, 2012

  5. *Rational General Solutions of Trivariate Rational Systems of Autonomous ODEs.* **MACIS 2011**, Beijing, China, October 19, 2011

  6. *Rational General Solutions of First-Order Algebraic ODEs.* **DK-Hearing**, Vienna, Austria, May 23, 2011

  7. *Parametric Loci of Intersection and Self-intersection for Parametrized Surfaces.* **RISC Forum**, Hagenberg, Austria, April 4, 2011

  8. *Rational General Solutions of High Order Non-autonomous ODEs.* **RISC CA Seminar**, Hagenberg, Austria, October 14, 2010

  9. *Parametric Loci of Self-intersection for Surfaces.* **SYNASC 2009**, Timisoara, Romania, September 26, 2009.

HONORS

- April 2023: The Outstanding Class Instructor of Tiangong University during 2022

- March 2023: Tianjin Excellent Master's Thesis Advisor during 2022

- June 2021: **Member** of the 4th China Mathematical Society Computer Mathematics Professional Committee

- May 2020: Excellent Undergraduate's Thesis Advisor of Tiangong University

- June 2018: Excellent Master's Thesis Advisor of Tiangong University

- July 2017: **The excellent conference paper** of the 4th CCF YOCSEF Tianjin Graduate Conference, CCF YOCSEF Tianjin

- October 2016: **Member** of the 3rd China Mathematical Society Computer Mathematics Professional Committee

- November 2015: **The Third Level candidate** of Tianjin "131" Innovative Talent Training Project

- May 2012: **The Best Academic Paper Award** of Beihang University

- October 2010 – September 2011: Postgraduate Program Scholarship of **High-level Government-sponsored Overseas Study**

- January 2010: **Top 10 Graduate Students** of School of Mathematics and Systems Science

- December 2009: **GUANGHUA** Scholarship