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## 个人简历

于娟，1984年4月生，女，汉族，山东滕州人，中共党员。副教授，硕士生导师。近年来主要从事分数阶神经网络，复杂网络理论研究及应用。

## 学习经历

- 2003年9月-2007年6月，潍坊学院，数学与应用数学，学士
- 2007年9月-2010年6月，新疆大学，应用数学，硕士
- 2010年9月-2013年6月，新疆大学，应用数学，博士

## 工作经历

- 2013年9月-2015年9月，新疆大学，讲师
- 2015年10月-至今，新疆大学，副教授

## 科研项目

### 主持项目

- [1] 国家地区自然科学基金，基于非降阶法的惯性神经网络模型的动力学特性及其同步控制（61866036），2019.01-2020.12，主持人
- [2] 自治区自然科学基金面上项目，基于非降阶思想的惯性神经网络的稳定性和同步控制（2018D01C057），2018.07-2021.06，7万，2/11

- [3] 国家青年自然科学基金科学，分数阶神经网络模型的稳定性与同步行为（11402223），2015.01-2017.12，主持人
- [4] 自治区青年自然科学基金，分数阶神经网络的动力学行为与同步控制（2014211B002），2014.01-2016.12，主持人
- [5] 新疆大学博士启动基金，分数阶神经网络模型的稳定性与同步行为（BS130108），2014.1-2015.12，主持人

### 参与项目

- [1] 国家自然科学基金项目，基于停息时间优化和支配集理论的复杂网络固定时间牵制同步(61963033)，2020.01-2023.12，39万，参与
- [2] NSFC 联合基金重点项目子课题，多语言环境下网络信息传播行为的动力学建模、分析与控制（U1703262-01），2018.01-2021.12，39万元，参与
- [3] 自治区青年自然科学基金，具有庇护所效应的分数阶生态种群及传染病动力学模型研究（2017D01C082），2017.06-2020.06，5万元，参与
- [4] 国家自然科学基金地区项目，一类不连续耦合网络的动力学建模、分析与控制（61563048），2016/01-2019/12，参与
- [5] 国家自然科学基金地区项目，控制策略和不确定因素对传染病传播和治疗影响的数学描述与模型分析（11461067），2015/01-2018/12，参与
- [6] 国家自然科学基金地区项目，高安全压力下谣言传播规律的模型构建与预测研究（61563050），2015/01-2018/12，参与
- [7] 国家自然科学基金，复杂网络系统的有限时间同步控制研究（61164004），2012.01-2015.12，参与
- [8] 国家自然科学基金面上项目，连续和离散忆阻神经网络的动力学分析与控制（61473244），2015.1.1-2018.12.31，参与
- [9] 教育部博士学科点专项基金，复杂动力网络在分散型自适应间歇控制下的同步行为（20136501120001），2014.01-2016.12，4万，参与

## 科研奖励

- 2012年，胡成，于娟，蒋海军，Exponential synchronization of complex networks with finite distributed delays coupling，第十二届新疆维吾尔自治区自然科学优秀学术论文一等奖
- 2012年，神经网络的动力学特征及其同步行为研究，2012年自治区科技进步一等奖，排名第九
- 2012年，神经网络的动力学特性及其同步行为研究，新疆大学第九届科学研究优秀成果特等奖，排名第八
- 2012年，博士研究生国家奖学金
- 2014年，于娟，胡成，蒋海军，Projective synchronization for fractional neural networks，第十三届新疆维吾尔自治区自然科学优秀学术论文三等奖
- 2016年，复杂系统的动力学分析与同步控制研究，新疆大学第一届自然科学奖特等奖，排名第三
- 2019年，于志永，蒋海军，胡成，于娟，Necessary and sufficient conditions for consensus of fractional-order multiagent systems via sampled-data control，第十五届新疆维吾尔自治区自然科学优秀学术论文一等奖
- 2019年，复杂系统的动力学分析与同步控制研究，2018年度自治区科技进步一等奖(自然科学)，排名第三
- 2020年，所在团队“复杂系统理论及其应用团队”入选自治区天山创新团队

## 科研成果（论文、专著等）

### ➤ 2020.1-Now:

- [1] **Juan Yu**, Cheng Hu\*, Haijun Jiang, Leimin Wang, Exponential and adaptive synchronization of inertial complex-valued neural networks: A non-reduced order and non-separation approach, *Neural Networks*, 124 (2020) 50-59.
- [2] Bibo Zheng, Cheng Hu, **Juan Yu\***, Haijun Jiang, Finite-time synchronization of fully

complex-valued neural networks with fractional-order, *Neurocomputing*, 37315 (2020) 70-80.

- [3] Yujiao Lv, Cheng Hu\*, **Juan Yu**, Haijun Jiang, Tingwen Huang, Edge-Based Fractional-Order Adaptive Strategies for Synchronization of Fractional-Order Coupled Networks With Reaction-Diffusion Terms, *IEEE Transactions on Cybernetics*, 50 (4) (2020) 1582-1594.
- [4] Kailong Xiong, **Juan Yu**, Cheng Hu\*, Haijun Jiang, Synchronization in finite/fixed time of fully complex-valued dynamical networks via nonseparation approach, *Journal of the Franklin Institute*, 357 (2020) 473-493.
- [5] Liang Feng, **Juan Yu**, Cheng Hu\*, Chengdong Yang, Haijun Jiang, Nonseparation Method Based Finite/Fixed-Time Synchronization of Fully Complex-Valued Discontinuous Neural Networks, *IEEE Transactions on Cybernetics*, 2020, early access, doi: 10.1109/TCYB.2020.2980684.

➤ **2019.1-2019.12:**

- [1] Shuai Yang, Juan Yu, **Cheng Hu\***, Haijun Jiang, Exponential Stability of Fractional-Order Impulsive Control Systems With Applications in Synchronization, *IEEE Transactions on Cybernetics*, 2019, early access, doi: [10.1109/TCYB.2019.2906497](https://doi.org/10.1109/TCYB.2019.2906497).
- [2] Tianqi Hou, Juan Yu, **Cheng Hu\***, Haijun Jiang, Finite-Time Synchronization of Fractional-Order Complex-Variable Dynamic Networks, *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 2019, early access, doi: [10.1109/TSMC.2019.2931339](https://doi.org/10.1109/TSMC.2019.2931339).
- [3] Shuai Yang, Juan Yu, **Cheng Hu\***, Haijun Jiang, Finite-Time Synchronization of Memristive Neural Networks With Fractional-Order, *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 2019, early access, doi: [10.1109/TSMC.2019.2931046](https://doi.org/10.1109/TSMC.2019.2931046).

➤ **2018.1-2018.12:**

- [1] Shuai Yang, **Juan Yu**, Cheng Hu\*, Haijun Jiang, Quasi-projective synchronization of fractional-order complex-valued recurrent neural networks, *Neural Networks*, 104 (2018) 104-113.

- [2] Gaojian Ji, **Juan Yu**, Cheng Hu\*, Haijun Jiang, Finite-time and Fixed-time Synchronization of Discontinuous Complex Networks: A Unified Control Framework Design, *Journal of the Franklin Institute*, 355 (11) (2018) 4665-4685.
- [3] Shichao Jia, Cheng Hu\*, **Juan Yu**, Haijun Jiang, Asymptotical and adaptive synchronization of Cohen–Grossberg neural networks with heterogeneous proportional delays, *Neurocomputing* 275 (2018) 1449–1455.
- [4] Jiarong Li, Haijun Jiang, Cheng Hu, **Juan Yu**, Analysis and discontinuous control for finite-time synchronization of delayed complex dynamical networks, *Chaos, Solitons & Fractals*, 114 (2018) 291-305.
- [5] Jiarong Li, Haijun Jiang, Cheng Hu, **Juan Yu**, Synchronization of a Class of Improved Neural Networks Based on Periodic Intermittent Control, *Neural Processing Letters*, 47 (1) (2018) 1-19.

➤**2017.1-2017.12:**

- [1] Hu, Cheng; Yu, Juan; Chen, Zhanheng; Jiang Haijun; Tianwen Huang; Fixed-time stability of dynamical systems and fixed-time synchronization of coupled discontinuous neural networks, *Neural Networks*, 89, 74-83, May, 2017.
- [2] Xiaolin Fan, **Juan Yu**, Haijun Jiang, Finite-time synchronization for complex network with unknown parameter via sliding mode scheme, 2017 4th International Conference on Information, *Cybernetics and Computational Social Systems*.
- [3] Yu, Zhiyong; Jiang, Haijun; Hu, Cheng; **Yu, Juan**, Necessary and Sufficient Conditions for Consensus of Fractional-Order Multiagent Systems via Sampled-Data Control, *IEEE Transactions on Cybernetics*, 47 (2017) :1892-1901.

➤**2015.1-2016.12:**

- [1] Cheng Hu, **Juan Yu**, Generalized intermittent control and its adaptive strategy on stabilization and synchronization of chaotic systems, *Chaos, Solitons and Fractals*, 91 (2016) 262–269.
- [2] **Juan Yu**, Cheng Hu, Haijun Jiang, Corrigendum to “Projective synchronization for fractional neural Networks”, *Neural Networks*, 67 (2015) 152–154.

- [3] Zhiyong Yu, Haijun Jiang., Cheng Hu and **Juan Yu**, Leader-following consensus of fractional-order multi-agent systems via adaptive pinning control, *International Journal of Control*, 2015, Vol. 88, No. 9, 1746–1756.

➤ **2012.1-2014.12:**

- [1] **Juan Yu**, Heng Hu, Haijun Jiang, Xiaolin Fan, projective synchronization for fractional neural networks, *Neural Networks*, 49(2014),87-95.
- [2] **Juan Yu**, Cheng Hu, Haijun Jiang, Zhidong Teng, Stabilization of nonlinear systems with time-varying delays via impulsive control, *Neurocomputing*, 125 (2014) , 68-71.
- [3] Cheng Hu, **Juan Yu**, Haijun Jiang, Finite-time synchronization of delayed neural networks with Cohen–Grossberg type based on delayed feedback control, *Neurocomputing*, 143(2014),90–96.
- [4] Cheng Hu, Xuehui Mei, **Juan Yu**, Haijun Jiang, Finite-time uniform stability of functional differential equations with applications in network synchronization control, *Chaos, Solitons & Fractals*, (2014) 62-63: 10-22.
- [5] **Juan Yu**, Cheng Hu, Haijun Jiang, Zhidong Teng, Synchronization of nonlinear systems with delays via periodically nonlinear intermittent control, *Commun Nonlinear Sci Numer Simulat*, 17(2012)2978-2989.
- [6] **Juan Yu**, Cheng Hu, Haijun Jiang, Zhidong Teng, Exponential lag synchronization for delay fuzzy cellular neural networks via periodically nonlinear intermittent control, *Mathematics and Computers in Simulation*, Volume 82, Issue 5, January 2012, Pages 895-908.
- [7] Chen Hu, **Juan Yu** and Haijun Jiang, Exponential synchronization for reaction-diffusion networks with mixed delays in terms of p-norm via intermittent driving, *Neural Networks*, 31(2012),1-11.
- [8] Cheng Hu, **Juan Yu**, Haijun Jiang, Zhidong Teng, Pinning synchronization of weighted complex networks with variable delays and adaptive coupling weights", *Nonlinear Dynamics*, Volume 67, Issue 2 (2012), Page 1373-1385
- [9] **Juan Yu**, Cheng Hu, Haijun Jiang,  $\alpha$ -stability and  $\alpha$ -synchronization for fractional-order neural networks, *Neural Networks*, 35, 82-87, 2012.

➤ **2010.1-2011.12:**

- [1] Cheng Hu, **Juan Yu**, Haijun Jiang, Synchronization of complex community networks with nonidentical nodes and adaptive coupling strength, *Physics Letters A*, 375 (2011) 873-879.
- [2] **Juan Yu**, Cheng Hu, Haijun Jiang, Zhidong Teng, Exponential synchronization of Cohen–Grossberg neural networks via periodically intermittent control, *Neurocomputing*, 74(2011),1776-1782.
- [3] Cheng Hu; **Juan Yu**; Haijun Jiang; Zhidong Teng; Exponential Synchronization of Complex Networks With Finite Distributed Delays Coupling , *IEEE Transactions on Neural Networks*, 21 (2010) 67-81.
- [4] Cheng Hu, **Juan Yu**, Haijun Jiang and Zhidong Teng, Exponential stabilization and synchronization for neural networks with time-varying delays via periodically intermittent control, *Nonlinearity*, 2010, 23, 2369-2391.
- [5] Cheng Hu, **Juan Yu**, Haijun Jiang, Zhidong Teng, Exponential lag synchronization for neural networks with mixed delays via periodically intermittent control, *Chaos*, 20 (2010) 023108.
- [6] **Yu Juan**, JIANG Hai-jun, TENG Zhi-dong, Synchronization of nonlinear systems with delay via periodically intermittent control, *新疆大学学报(自然科学版)*, Vol.27, No.3 Aug., (2010)