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**教育经历**

1999/09-2003/07 哈尔滨理工大学 计算机科学 学士

2003/08-2004/11 伦敦城市大学 信息工程 硕士

reasum_line72007/01-2012/07 华盛顿州立大学 电子工程 博士

**研究领域**

* 工业信息物理融合系统
* 工业人工智能与工业互联网
* 分布式协同控制与优化
* reasum_line7智能电网

**工作经历**

2007/01–2012/07 华盛顿州立大学 电气工程与计算机科学学院 助教/助研

2012/08–2014/08 瑞典皇家理工学院 ACCESS Linnaeus Centre 博士后

2014/08–2015/10 美国西北太平洋国家实验室 电力基础设施组 博士后

2015/11–2016/07 美国西北太平洋国家实验室 电力基础设施组 **Scientist**

2016/08–2019/05 美国北德克萨斯大学 电气工程系 **助理教授**

reasum_line72019/05 –至今 东北大学 流程工业综合自动化国家重点实验室 教授、主任助理

**获奖经历**

◎ **2018橡树岭大学联盟2018年度Ralph E. Powe Junior Faculty Enhancement Award**

◎ **2018** 第14届IEEE控制与自动化国际会议最佳学生论文奖（导师）

◎ **2019 国家青年高层次人才类项目获得者**

reasum_line7◎ **2022 麒麟科学技术奖-科技创新奖获得者**

**学术兼职**

**学会会员**

◎ IEEE控制系统协会（CSS）智能电网技术委员会 2016年至今

◎ IEEE控制系统协会（CSS）网络和通信系统技术委员会 2016年至今

◎ IEEE控制系统协会（CSS）非线性系统和控制技术委员会 2016年至今

◎ IFAC大型复杂系统技术委员会 2019年至今

◎ 中国自动化学会控制理论专业专委会委员 2021年至今

◎ 中国自动化学会青年工作委员会委员 2019年至今

**编委**

◎自动化学报，**副主编**

◎  **IEEE Transactions on Neural Networks and Learning Systems，编委**

◎  **IEEE Transactions on Control Systems Technology，编委**

◎  **IEEE/CAA Journal of Automatica Sinica，编委**

◎ IEEE Transactions on Industrial Informatics，Special Section on “Industrial Artificial intelligence for Smart Manufacturing”, 客座编委

◎ International Journal of Robust and Nonlinear Control, Special Issue on “Optimal Control and Learning for Cyber-Physical Systems”，客座编委

◎ IET Control Theory & Applications, Special Issue on “Distributed Optimization and Learning for Networked Systems”， 客座编委

◎ **Annual Reviews in Control, Special Section on “Complex Control of Networked Systems”，客座编委**

◎ **IEEE Control Systems Society (CSS) Conference Editorial Board，编委**

**程序委员会委员**

◎ 中国控制会议，2016-2021.

◎ 2021 SIAM 2021 SIAM Conference on Control and Its Applications, 2021年7月19日至7月21日

◎ 第16届IEEE国际控制与自动化会议（ICCA 2020），日本札幌，2020年7月6日至7月9日

◎ 第15届IEEE国际控制与自动化会议（ICCA 2019），苏格兰爱丁堡，2019年7月16日至19日

◎ **2018年美国控制会议（ACC 2018），**威斯康星州密尔沃基，2018年6月27日至29日

◎ 2018年国际无人机系统会议（ICUAS 2018），德克萨斯州达拉斯，2018年6月12日至15日

◎ 第十九届智能系统应用与电力系统国际会议（ISAP），德克萨斯州圣安东尼奥，2017年9月17日至21日

◎ 第14届IFAC大型复杂系统专题讨论会：理论与应用（LSS 2016），里弗赛德，加利福尼亚，2016年5月31日至6月3日

**会议邀请组主席**

◎ **第59届IEEE决策与控制会议 (CDC 2020)**，网络系统的分布式优化与学习-Part I, Part II, Part III，韩国济州岛，2020年12月14日至12月18日

◎ 第16届IEEE国际控制与自动化会议（ICCA 2020），网络系统的传感估计控制和优化，日本札幌，2020年7月6日至7月9日

◎ 第16届IEEE国际控制和自动化会议（ICCA 2020），分布式优化与学习，日本札幌，2020年7月6日至7月9日

◎ 第15届IEEE国际控制与自动化会议（ICCA 2019），网络系统及其应用，苏格兰爱丁堡，2019年7月16日至7月19日

◎ **第57届IEEE决策与控制会议（CDC 2018）**，网络系统的分布式优化-Part I, Part II, Part III，美国佛罗里达州迈阿密，2018年12月17日至19日

◎ 第15届国际控制，自动化，机器人与视觉国际会议，网络系统及其应用 （ICARCV 2018），新加坡，2018年11月18日至21日

◎ 第14届IEEE国际控制与自动化会议（ICCA 2018），分布式优化，阿拉斯加安克雷奇市，2018年6月12日至15日

◎ **第56届IEEE决策与控制会议（CDC 2017）**，新兴电力网络的控制和优化，澳大利亚墨尔本，2017年12月12日至15日

◎ 第13届IEEE国际控制和自动化会议（ICCA 2017），分布式控制，计算与优化，马其顿奥赫里德，2017年7月3日至7月6日

◎ 第27届中国控制与决策会议（CCDC 2015），多智能体系统的协调，中国青岛，2015年5月23日至25日

**会议专题研讨会主席**

◎ **2018年美国控制会议（ACC 2018），**大型复杂系统控制的跨学科方法：最新发展和未来趋势，威斯康星州密尔沃基，2018年6月27日至29日

◎ **第3届IEEE控制技术与应用大会（CCTA 2019），**网络物理能源系统的高级控制和优化，香港，2019年8月19日至21日

**审稿人**

reasum_line7◎ 近20个IEEE汇刊和IFAC会刊，中国科学，自动化学报，控制领域，人工智能领域，电力系统领域顶级会议

**期刊论文**

1. X. Yi, S. Zhang, **T. Yang,** T. Chai and K. H. Johansson, “Sublinear and Linear Convergence of Modified ADMM for Distributed Nonconvex Optimization”, ***IEEE Transactions on Control of Network Systems***, in press.
2. 时侠圣，徐磊，**杨涛**，“基于自适应精确罚函数的分布式资源分配算法”，***控制理论与应用***，待出版.
3. G. Ma, S. Xu, **T. Yang**\*, Z. Du, L. Zhu, H. Ding and Y. Yuan, “A Transfer Learning-Based Method for Personalized State of Health Estimation of Lithium-Ion Batteries”, ***IEEE Transactions on Neural Networks and Learning Systems***, in press.
4. 时侠圣，徐磊，**杨涛**，“基于鞍点法的自适应分布式资源分配算法”，***控制与决策***，待出版.
5. X. Yi, S. Zhang, **T. Yang**\*, T. Chai, K. H. Johansson, “Linear Convergence of First- and Zeroth-Order Primal-Dual Algorithms for Distributed Nonconvex Optimization”, ***IEEE Transactions on Automatic Control***, in press.
6. X. Yi, S. Zhang, **T. Yang**\*, K. H. Johansson, “Zeroth-Order Algorithms for Stochastic Distributed Nonconvex”, ***Automatica***, vol. 142, 2022.
7. **杨涛**，徐磊，易新蕾，张圣军，陈蕊娟，李渝哲\*，“基于事件触发的分布式优化算法”，***自动化学报***，vol. 47, no. 1, pp. 133-143, 2022.
8. X. Shi, L. Xu, **T. Yang\***, Z. Lin, X. Wang, “Distributed Fixed-time Resource Allocation Algorithm for the General Linear Multi-agent Systems”, ***IEEE Transactions on Circuits and Systems II: Express Briefs***, vol. 69, no. 6, pp. 2867-2871, 2022.
9. X. Yi, S. Zhang, **T. Yang**\*, T. Chai, K. H. Johansson, “A Primal–Dual SGD Algorithm for Distributed Nonconvex Optimization”, ***IEEE/CAA Journal of Automatica Sinica***, vol. 9, no. 5, pp. 812-833, 2022.
10. Y. Wan, J. Qin, X. Yu, **T. Yang**\*, Y. Kang, “Price-Based Residential Demand Response Management in Smart Grids: A Reinforcement Learning-Based Approach”, ***IEEE/CAA Journal of Automatica Sinica***, vol. 9, no. 1, pp. 123-134, 2022.
11. **T. Yang**\*, X. Yi, S. Lu, K. H. Johansson, T. Chai, “Intelligent Manufacturing for the Process Industry Driven by Industrial Artificial Intelligence”, ***Engineering***, vol. 7, no. 9, pp. 1224-1230, 2021.
12. T. Chai\*, J. Zhang, **T. Yang**, “Demand Forecasting of the Fused Magnesia Smelting Process with System Identification and Deep Learning”, ***IEEE Transactions on Industrial Informatics***, vol. 17, no. 12, pp. 8387-8396, 2021.
13. 时侠圣，**杨涛**\*，林志赟，王雪松，“基于连续时间的二阶多智能体分布式资源分配算法”，***自动化学报***，vol. 47, no. 8, pp. 2050-2060, 2021.
14. X. Yi, X. Li, **T. Yang**, L. Xie, T. Chai, and K. H. Johansson, “Distributed Bandit Online Convex Optimization with Time-varying Coupled Inequality Constraint”, ***IEEE Transactions on Automatic Control***, vol.66, no. 10, pp. 4620-4635, 2021.
15. P. Zhou, W. Q. Chen, C. M. Yi, Z. H. Jiang, **T. Yang**, T. Y. Chai, “Fast Just-in-time-learning Recursive Multi-output LSSVR for Quality Prediction and Control of an Ironmaking Blast Furnace”, ***Engineering Applications of Artificial Intelligence***, vol. 100, pp. 1-12, 2021.
16. X. Shi, Z. Lin, T. Yang and X. Wang, “Distributed Dynamic Event-triggered Algorithm with Minimum Inter-event Time for Multi-agent Convex Optimization”, ***International Journal of Systems Science***, vol.52, no. 7, pp. 1440-1451, 2021.
17. F. Li, J. Qin, Y. Wan and **T. Yang**, “Decentralized Cooperative Optimal Power Flow of Multiple Interconnected Microgrids via Negotiation”, ***IEEE Transactions on Smart Grid***, vol. 11, no. 5, pp. 3827-3836, 2020.
18. R. Chen, **T. Yang** and T. Chai, “Distributed Accelerated Optimization Algorithms: Insights from an ODE,” ***SCIENCE CHINA Technological Sciences***, vol. 9, pp. 1647-1655, 2020.
19. **杨涛，**柴天佑，“分布式协同优化的研究现状与展望”，***中国科学：技术科学***，vol. 50, no. 11, pp. 1414-1425, 2020.
20. K. Zhao, X. Dai, P. Zhou, and **T. Yang**, “Distributed Robust Event-triggered Control Strategy for Multiple High-speed Trains with Communication Delays and Input Constraints”, ***IEEE Transactions on Control of Network Systems***, vol. 7, no. 3, pp. 1453-1464, 2020.
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22. 平作为，何维，李俊林，**杨涛**，“基于稀疏学习的微电网负载建模”，***自动化学报***，vol. 13, no. 6, pp. 1798-1808, 2020.
23. Z. Ping, X. Li, W. He, **T. Yang**, and Y. Yuan, “Sparse Learning of Network-Reduced Models for Locating Low Frequency Oscillations in Power Systems”, ***Applied Energy***, vol. 262, 114541, 2020.
24. **T. Yang**, J. George, J. Qin, X. Yi and J. Wu, “Distributed Least Squares Solver for Network Linear Equations”, ***Automatica***, vol. 113, no. 108798, 2020.
25. **T. Yang**, X. Yi, J. Wu, Y. Yuan, D. Wu, Z. Meng, Y. Hong, H. Wang, Z. Lin and K.H. Johansson, “A Survey on Distributed Optimization”, ***Annual Reviews in Control***, vol. 47, pp. 278-305, 2019.
26. **T. Yang**, D. Wu, H. Fang, W. Ren, H. Wang, Y. Hong and K.H. Johansson, “Distributed Optimal Coordination for Distributed Energy Resources over Time-Varying Directed Networks”, ***IEEE Transactions on Control of Network Systems***, vol. 13, no. 6, pp. 1124-1134, 2019.
27. X. Yi, **T. Yang**, J. Wu and K.H. Johansson, “Distributed Event-Triggered Control for Global Consensus of Multi-agent Systems with Input Saturation”, ***Automatica***, vol. 100, pp. 1-9, 2019.
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29. Z. Meng, **T. Yang**, G. Li, W. Ren and D. Wu, “Synchronization of Coupled Dynamical Systems: Tolerance to Weak Connectivity and Arbitrarily Bounded Time-Varying Delays”, ***IEEE Transactions on Automatic Control***, vol. 63, no. 6, pp. 1791-1797, 2018.
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49. **T. Yang**, A.A. Stoorvogel and A. Saberi, “Dynamic Behavior of the Discrete-Time Double Integrator with Saturated Locally Stabilizing Linear State Feedback Laws”, ***International Journal of Robust and Nonlinear Control***, vol. 23, no. 17, pp. 1899-1931, 2013.
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**会议论文**

1. X. Yi, X. Li, T. Yang, L. Xie, T. Chai, K.H. Johansson, “Regret and Cumulative Constraint Violation Analysis for Online Convex Optimization with Long Term Constraints”, Proceedings of the 38th International Conference on Machine Learning (ICML 2021), Long Presentations.
2. X. Yi, S. J. Zhang, **T. Yang**, T. Chai, K.H. Johansson, “Linear Convergence for Distributed Optimization Without

Strong Convexity”, 59th IEEE Conference on Decision and Control, Jeju Island, Korea, 2020.

1. X. Yi, S. Zhang, **T. Yang**, K.H. Johansson and T. Chai, “Exponential Convergence for Distributed Smooth Optimization under the Restricted Secant Inequality Condition”, Proceedings of the 21st IFAC World Congress, Berlin, Germany, 2020.
2. X. Yi, X. Li, **T. Yang**, L. Xie, K.H. Johansson and T. Chai, “A Distributed Primal-Dual Algorithm for Bandit Online Convex Optimization with Time-Varying Coupled Inequality Constraints”, Proceedings of 2020 American Control Conference.
3. J. George, **T. Yang**, H. Bai and P. Gurram, “Distributed Stochastic Gradient Method for Nonconvex Problems with Applications in Supervised Learning”, 58th IEEE Conference on Decision and Control, Nice France.
4. S. Zheng, X. Yi, J. George and **T. Yang**, “Computational Convergence Analysis of Distributed Optimization Algorithms for Directed Graphs”, Proceedings of the 15th IEEE International Conference on Control and Automation, Edinburgh, Scotland.
5. X. Yi, S. Zheng, **T. Yang**, J. Wu and K. H. Johansson, “Distributed Online Convex Optimization with Long Term Coupled Constraints”, Proceedings of the 38th Chinese Control Conference.
6. X. Yi, **T. Yang**, J. Wu and K. H. Johansson, “Event-Triggered Control for Consensus of Multiagent Systems with Nonlinear Output and Directed Topologies”, Proceedings of the 38th Chinese Control Conference.
7. X. Shi, R. Zheng, **T. Yang**, Z. Lin and G. Yan, “A Distributed Algorithm with Event-Triggered Communication for Resource Allocation Problem”, Proceedings of 2019 American Control Conference, Philadelphia, PA.
8. J. George and **T. Yang**, “Fast Distributed Least-Squares Solver for Linear Time-Varying Equations”, Proceedings of 2019 American Control Conference, Philadelphia, PA.
9. W. Du, X. Yi, J. George, K. H. Johansson and **T. Yang**, “Distributed Optimization with Dynamic Event-Triggered Mechanisms”, Proceedings of the 57th IEEE Conference on Decision and Control, Miami, FL, 2018.
10. X. Yi, L. Yao, **T. Yang**, J. George and K. H. Johansson, “Distributed Optimization for Second-order Multi-agent Systems with Dynamic Event-Triggered Communication”, Proceedings of the 57th IEEE Conference on Decision and Control, Miami, FL, 2018.
11. J. George, X. Yi and **T. Yang**, “Distributed Robust Dynamic Average Consensus with Dynamic Event-Triggered communication”, Proceedings of the 57th IEEE Conference on Decision and Control, Miami, FL, 2018.
12. L. Yao, Y. Wan, S. Fu and **T. Yang**, “Consensus in Layered Sensor Networks with Communication Delays”, Proceedings of the 15th International Conference on Control, Automation, Robotics and Vision, Singapore, 2018.
13. L. Yao, Y. Yuan, S. Sundaram and **T. Yang**, “Distributed Finite-Time Optimization”, Proceedings of the 14th IEEE International Conference on Control and Automation, Anchorage, AK, 2018. **Best Student Paper Award**.
14. W. Du, L. Yao, D. Wu, X. Li, G. Liu and **T. Yang**, “Accelerated Distributed Energy Management for Microgrids”, Proceedings of the IEEE Power and Energy Society General Meeting, Portland, OR, 2018.
15. **T. Yang**, D. Wu, W. Ren, H. Wang, Y. Hong and K.H. Johansson, “Cooperative Optimal Coordination for Distributed Energy Resources”, Proceedings of the 56th IEEE Conference on Decision and Control, pp. 6334-6339, Melbourne, Australia, 2017.
16. X. Yi, **T. Yang**, J. Wu and K.H. Johansson, “Event-Triggered Control for Multi-agent Systems with Output Saturation”, Proceedings of the 36th Chinese Control Conference (CCC), pp. 8431- 8436, Dalian, China, 2017.
17. X. Wu, Y. Zhang, L. Ma, X. Xia and **T. Yang**, “Adaptive Waveform Design for Through-the-wall Radar Using Compressed Sensing Based Randomized Step Frequency”, Proceedings of the 29th Chinese Control and Decision Conference (CCDC), Chongqing, China, 2017.
18. H. Fang, D. Wu and **T. Yang**, “Cooperative Management of a Lithium-Ion Battery Energy Storage Network: A Distributed MPC Approach”, Proceedings of the 55th IEEE Conference on Decision and Control, pp. 4226-4232, Las Vegas, NV, 2016.
19. X. Wu and **T. Yang**, “Distributed Constrained Event-Triggered Consensus: L2 Gain Design Result”, Proceedings of the 42nd Annual Conference of IEEE Industrial Electronics Society, pp. 5420-5425, Florence, Italy, 2016.
20. **T. Yang**, D. Wu, A.A. Stoorvogel and J. Stoustrup, “Distributed Coordination of Energy Storage with Distributed Generators”, Proceedings of the IEEE Power and Energy Society General Meeting, Boston, MA, 2016.
21. D. Wu, M.Kintner-Meyer, **T. Yang** and P. Balducci, “Economic Analysis and Optimal Sizing for behind-the-meter Battery Storage”, Proceedings of the IEEE Power and Energy Society General Meeting, Boston, MA, 2016.
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