**肖峰，**男，1978年出生，汉族，天津人。**国家优秀青年科学基金获得者**，入选教育部“**新世纪优秀人才支持计划**”，北京大学博士，加拿大University of Alberta 博士后，2008 年—2012 年，北京理工大学自动化学院讲师、副教授； 2012年—2018年，哈尔滨工业大学教授、博导；2018—今，华北电力大学教授、博导。 2016年—2017年，加拿大维多利亚大学访问学者；2012年入选哈尔滨工业大学人才引进“百人计划”第三层次；2016年聘为哈尔滨工业大学**长聘教授**。担任中国自动化学会控制理论专业委员会（TCCT）委员、TCCT多自主体学组委员、TCCT网络化控制系统学组委员、中国控制会议（CCC）程序委员会委员（2014-2022）、《系统科学与数学》编委会编委、美国数学评论员等职务。

研究方向包括：网络化系统分布控制、多智能体系统协同控制、事件驱动控制；分布式决策与优化、群体智能、博弈控制系统；智能电网、电力系统建模与仿真。

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主要科研奖励及荣誉

1. 2017：**国家自然科学奖**二等奖（项目名称：网络化动态系统的分析与控制）
2. 2016：教育部自然科学奖一等奖（项目名称：网络化动态系统的分析与控制）
3. 2014: **国家自然科学奖**二等奖（项目名称：分布式协同控制的混合智能优化与稳定性）
4. 2014：教育部自然科学奖一等奖（项目名称：分布式协同控制的智能优化与稳定性）
5. 2014: 国家优秀青年科学基金获得者, 国家自然科学基金委
6. 2013: 新世纪优秀人才支持计划, 教育部
7. 2010: Izaak Walton Killam Memorial Postdoctoral Fellowship, University of Alberta, Edmonton, Canada
8. 2010: Dorothy J Killam Memorial Postdoctoral Fellow Prize, University of Alberta, Edmonton, Canada
9. 2018：2017年《中国科学：信息科学》十年经典论文奖
10. Automatica高被引论文奖
11. 2010: 北京大学优秀博士学位论文, 北京大学
12. 2008: 北京大学优秀毕业生, 北京大学

代表性科研项目

1. 2022.11-2025.10：《全工况动态特性模拟装置及系统联合仿真与安全性校核虚拟测试技术》，国家重点研发计划课题
2. 2023-2026：《基于信息物理系统的微电网安全控制与优化》，国家自然科学基金—面上项目
3. 2022-2024：《基于博弈的多智能体系统协同控制与优化》，北京市自然科学基金—面上项目
4. 2019-2022：《基于采样的异步多智能体系统协同控制研究》，国家自然科学基金—面上项目
5. 2015-2017：国家自然科学基金—优秀青年科学基金项目
6. 2014年度留学人员科技活动项目择优资助—启动类，人力资源和社会保障部
7. 2014-2016：教育部“新世纪优秀人才支持计划”资助项目
8. 2013.1-2016.12：《多智能体系统的分布式采样一致性控制》, 国家自然科学基金—面上项目
9. 2010.1-2012.12:：《多智能体网络系统的一致性协调控制》, 国家自然科学基金—青年基金项目
10. 2010.6-3012.5：加拿大Izaak Walton Killam Memorial Postdoctoral Fellowship
11. 2010.1-2012.12：《复杂环境下多机器人系统的队形控制》, 教育部高等学校博士学科点专项科研基金

代表性科研论文

1. F. Xiao, L. Wang, T. Chen (2023). Stability and performance of asynchronous sampled-data interconnected systems: An integral approach. ***IEEE Transactions on Automatic Control***, DOI:10.1109/TAC.2023.3240381.
2. P. Liu, F. Xiao, B. Wei, M. Yu (2023). Generalized Nash Equilibrium Seeking for Noncooperative Games with Heterogeneous Individual Dynamics. ***IEEE Transactions on Automatic Control***, DOI: 10.1109/TAC.2023.3308343.
3. P. Liu, K. Lu, F. Xiao, B. Wei, Y. Zheng (2023). Online distributed learning for aggregative games with feedback delays. ***IEEE Transactions on Automatic Control***, DOI 10.1109/TAC.2023.3237781.
4. X. Cai, F. Xiao, B. Wei, F. Fang (2023). Distributed continuous-time strategy-updating rules for noncooperative games with discrete-time communication. ***IEEE Transactions on Systems, Man, and Cybernetics: Systems***, 53(7):4477-4486.
5. X. Wang, F. Xiao, A. Wang, K. Liu (2023). Model-based distributed asynchronous sampling for multi-agent consensus with event-detecting delays and network delays. ***IEEE Transactions on Control of Network Systems***, DOI 10.1109/TCNS.2023.3237479.
6. X. Cai, F. Xiao, B. Wei (2023). Resilient Nash Equilibrium seeking in multiagent games under false data injection attacks. ***IEEE Transactions on Systems, Man, and Cybernetics: Systems***, 53(1):275-284.
7. J. Yu, F. Xiao, M. Cao (2023). Lag group consensus of high-order multiagent systems in directed network settings. ***IEEE Transactions on Systems, Man, and Cybernetics: System***. 53(7):4442-4452.
8. X. Zhang, F. Xiao, A. Wang, B. Mu (2023). Resilient quantized control for asynchronous sampled-data networked control systems under DoS attacks. S***ystems & Control Letters***. 179, 105590.
9. X. Cai, F. Xiao, B. Wei, M. Yu, F. Fang (2022). Nash Equilibrium seeking for general linear systems with disturbance rejection. ***IEEE Transactions on Cybernetics***. DOI: 10.1109/TCYB.2022.3195361.
10. [32] L. Zhou, J. Liu, Y. Zheng, F. Xiao, J. Xi (2022). Game-based consensus of hybrid multiagent systems. ***IEEE Transactions on Cybernetics***. DOI: 10.1109/TCYB.2022.3215619.
11. P. Liu, F. Xiao, B. Wei, M. Yu (2022). Nash equilibrium seeking for individual linear dynamics subject to limited communication resources. ***Systems & Control Letters***, 161, 105162.
12. X. Cai, F. Xiao, B. Wei (2022). Distributed strategy-updating rules for aggregative games of multi-integrator systems with coupled constraints. ***Systems*** ***& Control Letters***, 170, 105401.
13. F. Xiao, Y. Shi, T. Chen (2021). Robust stability of networked linear control systems with asynchronous continuous- and discrete-time event-triggering schemes. ***IEEE Transactions on Automatic Control***, 66(2), 932-939.
14. B. Wei, F. Xiao, F. Fang, Y. Shi (2021). Velocity-free event-triggered control for multiple Euler-Lagrange systems with communication time-delays. ***IEEE Transactions on Automatic Control***, 66(11): 5599-5605.
15. P. Liu, F. Xiao, B. Wei, A. Wang (2021). Distributed constrained optimization problem of heterogeneous linear multi-agent systems with communication delays. ***Systems & Control Letters***, 155, 105002.
16. J. Yang, F. Xiao, T. Chen (2021). Formation tracking of nonholonomic systems on the special euclidean group under fixed and switching topologies: An affine formation Strategy. ***SIAM Journal on Control and Optimization***, 59(4), 2850-2874.
17. B. Wei, F. Xiao (2021). Distributed consensus control of linear multi-agent systems with adaptive nonlinear couplings. ***IEEE Transactions on Systems, Man and Cybernetics: Systems***, 51(2), 1365-1370.
18. J. Yang, F. Xiao, T. Chen (2020). Event-triggered formation tracking control of nonholonomic mobile robots without velocity measurements. ***Automatica***, 112, 108671.
19. B. Wei, F. Xiao, Y. Shi (2020). Fully distributed synchronization of dynamic networked systems with adaptive nonlinear couplings. ***IEEE Transactions on Cybernetics***, 50(7), 2926-2934.
20. B. Wei, F. Xiao, Y. Shi (2020). Synchronization in Kuramoto oscillator networks with sampled-data updating law. ***IEEE Transactions on Cybernetics***, 50(6), 2380-2388.
21. M.-Z. Dai, F. Xiao (2020). Event- and self-triggered consensus for double-integrator networks with relative state measurements. ***International Journal of Control***, 93(5), 1194-1203.
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23. J. Yang, F. Xiao, J. Ma (2019). Model-based edge-event-triggered containment control under directed topologies. ***IEEE Transactions on Cybernetics***, 49, 2556-2567.
24. F. Xiao, Y. Shi, W. Ren (2018). Robustness analysis of asynchronous sampled-data multi-agent networks with time-varying delays. ***IEEE Transactions on Automatic Control***, 63(7), 2145–2152.
25. F. Xiao, T. Chen (2018). Adaptive consensus in leader-following networks of heterogeneous linear systems. ***IEEE Transactions on Control of Network Systems***, 5(3), 1169-1176.
26. G. Duan, F. Xiao, L. Wang (2018). Asynchronous periodic edge-event triggered control for double-integrator networks with communication time delays. ***IEEE Transactions on Cybernetics***, 48(2), 675–688.
27. B. Wei, F. Xiao, M-Z. Dai (2018). Edge event-triggered control for multi-agent systems under directed communication topologies. ***International Journal of Control***, 91(4), 887–896.
28. F. Xiao, T. Chen, H. Gao (2017). Consensus in time-delayed multi-agent systems with quantized dwell times. ***Systems & Control Letters***, 104, 59–65.
29. B. Wei, F. Xiao, M-Z. Dai (2017). Edge event-triggered synchronization in networks of coupled harmonic oscillators. ***IEEE Transactions on Cybernetics***, 47(12), 4162-4168.
30. M.-Z. Dai, F. Xiao, B. Wei (2017). Consensus analysis for leader-following multi-agent systems with second-order individual dynamics and arbitrary sampling. ***International Journal of Robust and Nonlinear Control***, 27 (18), 4348–4362.
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32. M. Cao, F. Xiao, L. Wang, (2016). Second-order consensus in time-delayed networks based on periodic edge-event driven control. ***Systems & Control Letters***, 96, 37–44.
33. F. Xiao, T. Chen (2016). Sampled-data consensus in multi-agent systems with asynchronous hybrid event-time driven interactions. ***Systems & Control Letters***, 89, 24–34.
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40. F. Xiao, L. Wang, T. Chen (2012). Connectivity preservation for multi-agent rendezvous with link failure (**Regular Paper**). ***Automatica***, 48(1), 25–35.
41. F. Xiao, L. Wang (2012). Asynchronous rendezvous analysis via set-valued consensus theory. ***SIAM Journal on Control and Optimization***, 50(1), 196–221.
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45. F. Xiao, L. Wang (2008). Asynchronous consensus in continuous-time multi-agent systems with switching topology and time-varying delays (**Regular Paper**). ***IEEE Transactions on Automatic Control***, 53(8), 1804–1816.
46. F. Xiao, L. Wang (2008). Consensus protocols for discrete-time multi-agent systems with time-varying delays. ***Automatica***, 44(10), 2577–2582.
47. F. Xiao, L. Wang (2007). Consensus problems for high-dimensional multi-agent systems. ***IET Control Theory and Applications***, 1(3), 830–837.
48. L. Wang, F. Xiao (2007). A new approach to consensus problems in discrete-time multiagent systems with time-delays. ***Science in China Series F: Information Sciences***, 50(4), 625–635.
49. F. Xiao, L. Wang (2006). State consensus for multi-agent systems with switching topologies and time-varying delays. ***International Journal of Control***, 79(10), 1277–1284.