金鑫

华东理工大学信息科学与工程学院 博士后

Email: xinjin@ecust.edu.cn; Tel: 13127919810;

工作经历

华东理工大学信息科学与工程学院，上海，中国 July 2021-
博士后 合作导师：唐漾教授
维多利亚大学，维多利亚，加拿大 Sept. 2019-Sept. 2020
访问博士生 合作导师：Prof. Yang Shi

教育经历

华东理工大学，上海，中国 Sept. 2016-Jun. 2021
工学博士
广东工业大学，广州，中国 Sept. 2012-Jun. 2016
工学学士

奖励

- Journal of the Franklin Institute, 杰出审稿人, 2020, 2021
- The 3rd British Columbia Universities Systems and Control Meeting, 最佳汇报, 2020
- 华东理工大学学术论文汇报, 一等奖, 2021
- 华东理工大学化学工业区奖学金

研究兴趣

多智能体系统；刚体系统；姿态协同控制；事件驱动

学术成果

期刊论文

[1]. Yang Tang*, **Xin Jin***, Yang Shi, and Wenli Du*, "Event-triggered attitude synchronization of multiple rigid body systems with velocity-free measurements," *Automatica*, vol. 143, p. 110460, 2022. (SCI)

[2]. **Xin Jin**, Yang Shi, Yang Tang*, Herbert Werner, and Jürgen Kurths, "Event-triggered Fixed-time Attitude Consensus with Fixed and Switching Topologies," *IEEE Transactions on Automatic Control*, vol. 67, no. 8, pp. 4138-4145, 2022. (SCI)10.1109/TAC.2021.3108514

[3]. **Xin Jin**, Yang Shi, Yang Tang*, and Xiaotai Wu, "Event-triggered attitude consensus with absolute and relative attitude measurements," *Automatica*, vol. 122, p. 109245, 2020. (SCI)

[4]. Xiaotai Wu, Weixing Zheng, Yang Tang*, and **Xin Jin**, "Stability Analysis for Impulsive Stochastic Time-varying Systems," *IEEE Transactions on Automatic Control*, accepted, 2022. (SCI)10.1109/TAC.2022.3190197

[5]. Dandan Zhang, **Xin Jin**, and Hongye Su*, "Robust Global Attitude Control: Random Reset Rule," *IEEE*

Transactions on Automatic Control, accepted, 2022. (SCI)10.1109/TAC.2022.3228219

[6]. **Xin Jin**, Yang Tang*, Yang Shi, Wenle Zhang, and Wei Du, "Event-triggered formation control for A Class of Uncertain Euler-Lagrange Systems: Theory and Experiment," *IEEE Transactions on Control Systems Technology,* vol. 30, no. 1, pp. 336-343, Jan. 2022. (SCI)10.1109/TCST.2021.3055370

[7]. **Xin Jin**, Wei Du, Wangli He, Ljupco Kocarev, Yang Tang*, and Jürgen Kurths, "Twisting-Based Finite-Time Consensus for Euler-Lagrange Systems with an Event-Triggered Strategy," *IEEE Transactions on Network Science and Engineering*, vol. 7, no. 3, pp. 1007–1018, 2020. (SCI) 10.1109/TNSE.2019.2900264

[8]. Dandan Zhang, Yang Tang*, **Xin Jin**, Jürgen Kurths, "Quaternion-Based Attitude Synchronization with An Event-Based Communication Strategy," *IEEE Transactions on Circuits and Systems I: Regular Papers*, accepted, 2021. (SCI)10.1109/TMECH.2019.2929191

[9]. Saiwei Wang, **Xin Jin**, Shuai Mao, A. V. Vasilakos and Yang Tang*, "Model-Free Event-Triggered Optimal Consensus Control of Multiple Euler-Lagrange Systems via Reinforcement Learning," *IEEE Transactions on Network Science and Engineering*, vol. 8, no. 1, pp. 246-258, 1 Jan.-March 2021. (SCI) 10.1109/TNSE.2020.3036604

[10]. Yang Tang*, Dandan Zhang, **Xin Jin**, Dachen Yao, Feng Qian, "A Resilient Attitude Tracking Algorithm for Mechanical Systems," *IEEE Transactions on Mechatronics*, vol. 24, no. 6, pp. 2550-2561, 2020. (SCI)

[11]. **Xin Jin**, Shuai Mao, Ljupco Kocarev, Chen Liang, Saiwei Wang, Yang Tang*, "Event-Triggered Optimal Attitude Consensus of Multiple Rigid Body Networks with Unknown Dynamics," *IEEE Transactions on Network Science and Engineering,* vol. 9, no. 5, pp. 3701-3714, Sept.-Oct. 2022. (SCI) 10.1109/TNSE.2022.3178757.

[12]. **Xin Jin**, Zhu Cao, Yang Tang*, Jürgen Kurths, "Partial Quantum Consensus of Qubits Networks with Connected Topologies," *IEEE Transactions on Cybernetics* under 2nd review.

[13]. **Xin Jin,** Yang Tang*, Yang Shi, Xiaotai Wu, "Event-triggered Attitude Consensus of Multiple Rigid Body Systems with Prescribed Performance," submitted to *Automatica (Regular paper).*

会议论文

[1]. **X. Jin**, and Y. Tang, "Tracking Control for Non-Identical Euler-Lagrange Systems with An Event-triggered Observer,"*2018 15th Int. Conf. Control. Autom. Robot. Vision*, ICARCV 2018, Singapore, vol. 544, pp. 544–549, 2018. (EI)

[2]. **X. Jin**, and Y. Tang, "Event-based Leader-follower Consensus for Euler-Lagrange systems," *2018 IEEE 14th Int. Conf. Control Autom*., ICCA 2018, Anchorage, Alaska, USA, vol. 10, pp. 10–15, 2018. (EI)

[3]. **X. Jin**, W. Zhang, X. Wu and Y. Tang, "Event-triggered Finite-time Consensus under Directed Graphs,"*21st IFAC World Congress*, IFAC 2020, Berlin, Germany. (EI) **Online Presentation.**

学术兼职

期刊审稿人

IEEE Trans. on Control Systems Technology, IEEE Trans. on Neural Networks and Learning Systems, IEEE/ASME Trans. on Mechatronics, IEEE Trans. on Circuits and Systems-I: Regular Papers, IEEE Trans. on Cybernetics, IEEE Transactions on Emerging Topics in Computational Intelligence, IEEE Systems Journal, The Journal of the Franklin Institute

会议审稿人
IECON, IFAC, CCC

项目

主持
中国博士后科学基金，特别资助项目(站前资助)，基于李群的事件触发多刚体系统协同控制，2021-7 至 2023-7，18 万
中国博士后科学基金，面上资助项目，基于李群的事件触发多刚体系统协同控制理论及应用，2022-11 至 2023-10，8 万
中国科协青年人才托举工程，国拨经费，资源受限下的多刚体系统协同控制，2023-1 至 2025-1，30 万
上海市“超级博士后”激励计划，基于旋转群的事件触发多刚体系统协同控制，2021-7 至 2023-7，30 万

参与
国家自然科学基金委重点项目，资源受限下微纳星群信息自主传输、交互分享与协同观测，2023-01 至 2027-12，技术负责人，368 万
中央军委科技委，基础加强计划技术领域基金项目，信息受限下 XXXXXX 博弈制导决策， 2021-10 至 2024-10，90 万
国家自然科学基金面上项目，混杂多智能体网络协同控制，2017-01 至 2020-12，73.6 万
国家自然科学基金中德科学中心合作交流项目，无线通信网络中的非完整多智能体系统分布式控制，2020-01 至 2022-12，150 万