DONGDONG YUE (1994-01)

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BIOGRAPHY

Dongdong Yue received the B.S. degree in applied mathematics from Hefei University of Technology, Hefei, China, in 2015, and the Ph.D. Degree in control science and engineering from Southeast University, Nanjing, China, in 2021. Since 2021 July, he has been a postdoctoral researcher with the School of Mathematics, Southeast University. From May to August 2019, he visited the Control and Robotics Lab, Okayama Prefectural University, Japan. From October 2019 to October 2020, he visited the Delft Center for System and Control, Delft University of Technology, The Netherlands. His research interests include adaptive control, distributed optimization and neural networks. Dr. Yue, as the first author, has published several papers in leading Journals and conferences, and received the Best Paper in Theory Award from the 18th IEEE International Conference on Networking, Sensing, and Control.

EDUCATION

Hefei University of Technology (HFUT), *B. Sc.*, Math and Applied Mathematics   2011.9 - 2015.6
Southeast University (SEU), *Master student*, Applied Mathematics   2015.9 - 2017.1
 Supervisor: Prof. Jinde Cao
Southeast University, *Ph. D.*, Control Science and Engineering   2017.3 - 2021.3
 Supervisor: Prof. Qi Li, Prof. Jinde Cao; Thesis: Distributed adaptive control of uncertain network systems

VISITINGS

SciYon Automation Group Co.,Ltd. (Nanjing), *Intern Engineer*   2017.8 - 2019.4
Okayama Prefectural University (OPU, Japan), Xin Lab, *Visiting Researcher*   2019.5 - 2019.8
 Host: Prof. Xin Xin
Delft University of Technology (TUD, The Netherlands), DCSC, *Joint Ph. D.*   2019.10 - 2020.10
 Supervisor: Prof. Bart De Schutter, Prof. Simone Baldi

PRESENTATIONS

2019 International Joint Conference on Neural Networks, Budapest, Hungary   2019.7
 Robust Neuro-adaptive Asymptotic Consensus for a Class of Uncertain Multi-agent Systems: An Edge-based Paradigm

39th Benelux meeting on System and Control, Elspeet, The Netherlands   2020.3
 A Directed Spanning Tree Adaptive Control Framework to Time-Varying Formations (Abstract)

16th Chinese Network Science Forum, Xuzhou(online)   2020.5
 A Directed Spanning Tree Adaptive Control Framework to Time-Varying Formations

5th Chinese System Science Conference, Nanjing   2021.5
 Distributed Adaptive Resource Allocation over Digraphs: an Uncertain Saddle-point Dynamics Viewpoint

18th IEEE International Conference on Networking, Sensing and Control, Xiamen(online) 2021.12
 Distributed Adaptive Consensus via Event-triggered Sampling: An Edge-based Method

PUBLICATIONS

Journal papers

[1]. **Dongdong Yue**, Simone Baldi, Jinde Cao, and Bart De Schutter. Distributed adaptive optimization with weight-balancing. *IEEE Transactions on Automatic Control*, doi: 10.1109/TAC.2021.3071651, to appear. (IF: 5.792)

[2]. **Dongdong Yue**, Simone Baldi, Jinde Cao, Qi Li, and Bart De Schutter. A directed spanning tree adaptive control solution to time-varying formations. *IEEE Transactions on Control of Network Systems*, 8(2): 690-701, 2021. (IF: 3.502)

[3]. **Dongdong Yue**, Jinde Cao, Qi Li, and Qingshan Liu. Neural-network-based fully distributed adaptive consensus for a class of uncertain multiagent systems. *IEEE Transactions on Neural Networks and Learning Systems*, 32(7): 2965-2977, 2021. (IF: 10.451)

[4]. **Dongdong Yue**, Qi Li, Kil To Chong, and Jinde Cao. Neural-network-embedded distributed average tracking of agents with matching unknown nonlinearities. *Asian Journal of Control*, 23(6): 2628-2641, 2021. (IF: 3.452)

[5]. **Dongdong Yue**, Jinde Cao, Qi Li, and Mahmoud Abdel-Aty. Distributed neuro-adaptive formation control for uncertain multi-agent systems: node- and edge-based designs. *IEEE Transactions on Network Science and Engineering*, 7(4): 2656-2666, 2020. (IF: 3.894)

[6]. **Dongdong Yue**, Jinde Cao, Qi Li, and Xinli Shi. Neuro-adaptive consensus strategy for a class of nonlinear time-delay multi-agent systems with an unmeasurable high-dimensional leader. *IET Control Theory & Applications*, 13(2): 230-238, 2019. (IF: 3.343)

Conferences papers

[1]. **Dongdong Yue**, Simone Baldi, Wenying Xu and Jinde Cao, "Distributed adaptive consensus via event-triggered sampling: an edge-based method," *IEEE International Conference on Networking, Sensing and Control (ICNSC)*, Xiamen, China, 2021.

[2]. **Dongdong Yue**, Qi Li, Jinde Cao, and Xuegang Tan. Robust neuro-adaptive asymptotic consensus for a class of uncertain multi-agent systems: an edge-based paradigm. *International Joint Conference on Neural Networks (IJCNN)*, Budapest, Hungary, 2019.

[3]. Xuegang Tan, Jinde Cao, Rensi Chen, and **Dongdong Yue**. The event-based consensus of multi-agent networks with control gain in normal distribution. *Chinese Control Conference (CCC)*, Guangzhou, China, 2019.

PROJECTS

- Graduate Research and Innovation Program of Jiangsu Province under Grant KYCX19_0086, 2019.3-2020.3, Distributed adaptive control of uncertain network systems
- China Postdoctoral Science Foundation under Grant BX2021064, 2021.7-2023.7, Distributed adaptive optimization and economic dispatch

HONORS

- Outstanding graduates of Class 2015, HFUT, 2015.7
- National Government Scholarship for Studying Abroad, CSC, 2019.5
- Education Foundation Scholarship, SEU, 2019.8
- National Government Scholarship for Ph. D. students, 2020.12
- Best Paper in Theory, ICNSC2021, 2021.12

EXTRA

- Member of IEEE since 2021.9; Member of CAA since 2022.1.
- Reviewers of journals including IEEE Transactions on Cybernetics, Applied Mathematics and Mechanics, etc.
- Reviewers of conferences including CAC2021, ICACI2021, etc.