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Working Experience

2021.03 – current

Postdoc In Shanghai Jiao Tong University | Shanghai | China
Research Topic: *Attitude Control for Distributed Spacecraft System Under Complex Disturbance*

Education

2012.09 – 2020.12

PH.D. in School of Control Science and Engineering | Shandong University | Jinan | China
Major: Control Theory and Control Engineering
Research Institutes: *National and Local Joint Engineering Research Center "Renewable Energy and Energy Efficiency"* and *Provincial Key Lab "Renewable Energy and Power Electronic Energy Saving Technology"*
Thesis Title: *Research on distributed controls for triangular nonlinear multi-agent and large-scale systems*
Supervisor: Prof. Chenghui Zhang, and Prof. Xianfu Zhang

2017.12 – 2019.12

Visiting Student in Faculty of Science, Engineering & Technology | Swinburne University of Technology | Melbourne | Australia
Research Topic: *Distributed control for the multi-agent systems*
Supervisor: Prof. Qing-Long Han (IEEE Fellow), Prof. Xiaohua Ge

2008.09 – 2012.07

B.S. in School of Mathematics | Shandong University | Jinan | China
Major: Mathematics and Applied Mathematics (National Science Base Class)

Publication

- **Chang, L.**, Han, Q.-L., Ge, X., Zhang, C., & Zhang, X. (2021). On designing distributed prescribed finite-time observers for strict-feedback nonlinear systems. *IEEE Transactions on Cybernetics*, *51*(9), 4695–4706. https://doi.org/10.1109/TCYB.2019.2951067
- **Chang, L.**, Zhang, C., Zhang, X., & Chen, X. (2017). Decentralised regulation of nonlinear multi-agent systems with directed network topologies. *International Journal of Control*, *90*(11), 2338–2348. https://doi.org/10.1080/00207179.2016.1245868
- **Chang, L.**, Zhang, C., Chen, X., & Zhang, X. (2015). Adaptive state estimation for a class of system with nonlinear parametrization. *The 27th Chinese Control and Decision Conference (2015 CCDC)*, 1610–1613. https://doi.org/10.1109/CCDC.2015.7162176
- Zhang, C., **Chang, L.**, & Zhang, X. (2014). Leader-follower consensus of upper-triangular nonlinear multi-agent systems. *IEEE/CAA Journal of Automatica Sinica*, *1*(2), 210–217. https://doi.org/10.1109/JAS.2014.7004552

- Chen, X., Zhang, X., Zhang, C., & **Chang**, **L.** (2020). A time-varying high-gain approach to feedback regulation of uncertain time-varying nonholonomic systems. *ISA transactions*, *98*, 110–122. https://doi.org/10.1016/j.isatra.2019.08.062
- Li, H., Zhang, X., & **Chang**, **L.** (2019). Output feedback regulation of a class of triangular structural nonlinear systems with unknown measurement sensitivity. *International Journal of Systems Science*, *50*(13), 2486–2496. https://doi.org/10.1080/00207721.2019.1671529
- Chen, X., Zhang, X., Zhang, C., & **Chang**, **L.** (2018). Global asymptotic stabilization for input-delay chained nonholonomic systems via the static gain approach. *Journal of the Franklin Institute*, *355*(9), 3895–3910. https://doi.org/10.1016/j.jfranklin.2018.03.009
- Chen, X., Zhang, X., **Chang**, **L.**, & Zhang, C. (2016). Feedback stabilization for cross triangular nonlinear systems. *2016 Chinese Control and Decision Conference (CCDC)*, 1759–1763. https://doi.org/10.1109/CCDC.2016.7531266

Papers in Preparation

Submitted

- **Chang**, **L.**, Ding, D., & Fu, C. (2021). Global stabilization for slowly time-varying feedforward nonlinear systems via intermittent control [Submitted to Automatica].
- **Chang**, **L.**, & Fu, C. (2021a). Designing a stabilizing control for nonlinear feedforward systems with unknown input saturation [Submitted to IEEE control systems letters].
- Zhang, C., **Chang**, **L.**, & Zhang, X. (2021). Dynamic gain design for fixed-time stabilization of linear and nonlinear control systems [Submitted to Automatica].

Preparation

- **Chang**, **L.**, Zhang, C., & Zhang, X. (2022a). *Distributed dynamic gain scheduling control for a class of interconnected nonlinear systems*.
- **Chang**, **L.**, Zhang, C., & Zhang, X. (2022b). *Group consensus for nonlinear heterogeneous multi-agent systems*.
- **Chang**, **L.**, & Fu, C. (2021b). *Global finite-time stabilization of nonlinear systems via dynamic intermittent output feedback control*.

References

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