Le Chang

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📍 Yangpu District, Shanghai, China

Working Experience

2023.09 – current   🔖 **Research Associate in Shanghai University of Electric Power | Shanghai | China**

2021.03 – 2023.07   🔖 **Postdoc in Shanghai Jiao Tong University | Shanghai | China**

Education

2012.09 – 2020.12   🔖 **PH.D. in School of Control Science and Engineering | Shandong University | Jinan | China**
Major: Control Theory and Control Engineering
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**
Major: Control Theory and Control Engineering
Supervisor: Prof. Qing-Long Han (IEEE Fellow), and Dr. 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

Book

- Zhang, C., **Chang**, **L.**, & Fu, C. (2023). *Variable gain control and its applications in energy conversion*. CRC Press.
🔗 https://doi.org/10.1201/9781003392927

Papers

- **Chang**, **L.**, Xiaohua, G., Ding, D., & Fu, C. (Early Access). Stabilization for a class of feedforward nonlinear systems via pulse-width-modulated controllers. *IEEE Transactions on Automatic Control*.
🔗 https://doi.org/10.1109/TAC.2023.3317373

- **Chang**, **L.**, & Fu, C. (2023). Designing a stabilizing control for nonlinear feedforward systems with unknown input saturation. *International Journal of Robust and Nonlinear Control, 33*(3), 2078–2089.
🔗 https://doi.org/10.1002/rnc.6502

- **Chang**, **L.**, Shao, X., & Zhang, D. (2023). Stabilization for a class of strict-feedback nonlinear systems via the pwm control law. *Journal of the Franklin Institute*, 8550–8568.
🔗 https://doi.org/10.1016/j.jfranklin.2023.06.027

- **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.**, Xing, L., & Zhang, X. (2023). Fixed-time stabilization of a class of strict-feedback nonlinear systems via dynamic gain feedback control. *IEEE/CAA Journal of Automatica Sinica*, *10*(2), 403–410. 🔗 https://doi.org/10.1109/JAS.2023.123408

- 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

Submitted papers

- **Chang**, **L.** (2023a). Global output-feedback stabilization for nonlinear systems via a switching control gain approach [Submitted to International Journal of Control].

- **Chang**, **L.** (2023b). Sampled-data feedback control for a class of nonlinear systems via intermittent hold [Submitted to IEEE Transactions on Automatic Control].

Skills

Languages	🔖	Strong reading, writing and speaking competencies for English, Mandarin Chinese.
Professional	🔖	PID control, Kalman filter, Distributed control, Lyapunov analysis.
Coding	🔖	Matlab, Python, LaTeX, C++, …
Misc.	🔖	Academic research, LaTeX typesetting and publishing.