Education

Central South University   09/2017-Now

- Master-Doctor Combind Program, School of Automation
- **Research Interests:** Complex Networks || Security of Industrial Cyber-Physical System|| AGV
- **Supervisor:** Chunhua Yang
- **Academic Advisor:** Keke Huang
- Scholarship for Outstanding Students

Central South University   09/2012-06/2016

- Bachelor of Automation, School of Information Science & Engineering
- Scholarship for Outstanding Students (every year)   09/2013-06/2016

Experiences

- Security of Industrial Cyber-Physical System   01/2020-Now
- AGV System for Iron Industrial, Head   12/2017-12/2018
  Innovation-Driven Plan in Central South University
- AGV System for Medical Storage, Head   06/2017-/05/2018
- Human Motion Pose Capture and Reconstruction Based on Inertial Sensors, Third Member   03/2015-03/2016
- Honorable Mention of Mathematical Contest in Modeling of American, Head   01/2015
- Wearable Motion Recognition System, Head   09/2014-09/2015

Papers

- **Y. Zhang**, C. Yang, K. Huang, C. Zhou and Y. Li, "Robust Structure Identification of Industrial Cyber-Physical System From Sparse Data: A Network Science Perspective," *IEEE Transactions on Automation Science and Engineering*, 2021 **https://doi.org/10.1109/TASE.2021.3062356**.
- **Y. Zhang**, K. Huang, and C. Yang. "Complex Networks Identification using Bayesian Model with independent Laplace Prior from Evolutionary Game" *Chaos,* vol 31, no. 21, 2021, **https://doi.org/10.1063/5.0031134**
- **Y. Zhang**, C. Yang, K. Huang, M. Jusup, Z. Wang and X. Li, "Reconstructing Heterogeneous Networks via Compressive Sensing and Clustering," *IEEE Transactions on Emerging Topics in Computational Intelligence*, 2020, **https://doi.org/10.1109/TETCI.2020.2997011.**
- K. Huang, **Y. Zhang**, Y. Li, C. Yang, and Z. Wang. "Effects of external forcing on evolutionary games in complex networks." *Chaos: An Interdisciplinary Journal of Nonlinear Science,* vol 28, no. 9, 2018, **https://doi.org/10.1063/1.5040714**
- K. Huang, W. Deng, **Y. Zhang**, and H. Zhu. "Sparse Bayesian learning for network structure reconstruction based on evolutionary game data." *Physica A: Statistical Mechanics and its Applications,* vol 541, 2020. **https://doi.org/10.1016/j.physa.2019.123605**
- **Y. Zhang**, C. Yang, K. Huang, "Industrial Cyber-Physical System Intrusion detection based on Improved Graph Neural Networks", *IEEE Transactions on Network Science and Engineering.***(Under Review)**

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Skills:

- **Computer Programming**
- **AGV Operation System**
- **Mathematical modeling**
- **Data Mining & Processing**

Interests:

- **Soccer**
- **Martial Arts**
- **Artificial intelligence and Machine Learning**