

**Fang Yang (Ph.D., Associate Professor)**

Fang Yang (female)

**Birth Date:** Mar. 11, 1979    **Nationality:** Chinese**Health:** Excellent    **Email:** yangfang@mail.hzau.edu.cn**Languages:** Chinese (Mandarin, perfect), English (Perfect)***Education:***

2003.9 — 2008. 6    Department of Control Science and Engineering, Huazhong University of Science and Technology, Wuhan, PR China

**Ph.D's Degree** in Control Theory and Control Engineering**Thesis title:** Study on Networked Control System and Its Fault Diagnosis

2000. 9 — 2003. 6    Department of Control Science and Engineering, Huazhong University of Science and Technology, Wuhan, PR China

**Master's Degree** in System Engineering**Thesis title:** Research of Agent-based Self-adaptive Video Transfer System

1996. 9 — 2000. 6    Department of Control Science and Engineering, Huazhong University of Science and Technology, Wuhan, PR China

**Bachelor's Degree** in Automation***Work Experience:***

2008. 7 —Present    College of Engineering, Huazhong Agricultural University, Wuhan, PR China

**Associate Professor, Master Student Supervisor****Research field:** 1) Intelligent technology and equipment for fruit production; 2) Multi robot cooperative control theory.

**Representative Publications:**

- Peijie Huo, **Fang Yang**, Hongbo Luo, Mingkuan Zhou, Yanlin Zhang. *Distributed monitoring system for precision management of household biogas appliances*, *Computers and electronics in agriculture*, 2019, Vol.157:359-370.
- Xiongbo Wan, Li Xu, Huajing Fang, **Fang Yang**. *Robust stability analysis for discrete-time genetic regulatory networks with probabilistic time delays*. *Neurocomputing*, 2014, 124:72-80
- Xiongbo Wan, Li Xu, Huajing Fang, **Fang Yang**, Xuan Li. *Exponential synchronization of switched genetic oscillators with time-varying delays*. *Journal of the Franklin Institute*, 2014, 351( 8): 4395-4414
- Huang Jia-lu, **Yang Fang**, Zhang Yan-lin. *Design and application of wireless sensor nodes based on CC2430 in greenhouse*. *Journal of Huazhong Agricultural University*. 2013, 32(5): 119-123
- Xiongbo Wan, Huajing Fang, **Fang Yang**. *Fault Detection for Networked Systems with Randomly Occurring Nonlinearities via Switched System Approach*. 25th Chinese Control and Decision Conference, Guiyang, China, May 25-27, 2013: 3125-3130
- Xiongbo Wan, Huajing Fang, **Fang Yang**. *Fault Detection for a Class of Networked Nonlinear Systems Subject to Imperfect Measurements*. *International Journal of Control, Automation and Systems*, 2012, 10(2): 265-274
- **Fang Yang**, Huajing Fang. *Observer-based fuzzy control for nonlinear networked control systems based on T-S fuzzy model*. The 2<sup>nd</sup> International Conference on Computer Modeling and Simulation, Sanya, China, January 22-24, 2010: 416-420
- **Fang Yang**, Huajiang Fang. *Control structure design of networked control systems based on maximum allowable delay bounds*. *Journal of the Franklin Institute*, 2009, 346(6): 626-635
- **Fang Yang**, Lihong Yao and Huajing Fang. *Fault diagnosis for nonlinear networked control systems based on T-S fuzzy model*. International Conference on Information Engineering and Computer Science, Wuhan, China, December 19-20, 2009: 1500-1503
- **Yang Fang**, Fang Huajing. *Networked control systems through hierarchical and multiple models switching*. *Journal of Huazhong University of Science and Technology(Nature Science Edition)*, 2008, 36(10): 8-11
- **Fang Yang**, Huajing Fang. *Control strategy design of networked control systems based on*

*maximum allowable delay bounds*. IEEE International Conference on Control and Automation, Guangzhou, China, 2007:794-797

***Teaching:***

- Principle of Automatic Control (Undergraduate Course)
- Modern Control Theory (Graduate Course and Undergraduate Course)