

Li Dongda

Gender: Male

Date of birth: 05/08/1993

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Education

School of Automation and Information Engineering

Xi'an University of Technology

09/2011-06/2015

B.S., major in Automation

Advisor: Yingming Yi

Specialized courses included automatic control theory, signal and system analysis, motion control technology, computer control technology, sensor technology, C++ language, embedded system, circuit theory, etc.

Research Experience

Research Assistant

08/2016-Present

The Department of Compute Science

The University of HongKong

Supervisors: Francis C.M. Lau, Yuexuan Wang and Heming Cui

Research Area: Robotic Network, Wireless Sensor Network, Internet of Things

Research Assistant

07/2016-07/2017

Unmanned Aerial Vehicle Autonomous Control Institute

Beijing Institute of Technology

Supervisor: Defu Lin

Research Area: Unmanned Aerial Vehicle Control System, Navigation System, Data Fusion

Work experience

Embedded Software Engineer

07/2015-06/2016

Beijing Zhonghangzhi Technology Co., Ltd

Responsibilities: Design of new unmanned helicopter flight control software.

Include hardware BSP development, operating system transplantation and application, navigation algorithm design, etc.

Publication

● **Published paper**

- Dongda Li, Yuexuan Wang, Zhaoquan Gu, Tong Shen, Tianhao Wei, Yongqin Fu, Heming Cui, Mingli Song, Francis C. M. Lau. Adler: A Resilient, High-Performance and Energy-Efficient UAV-Enabled Sensor System. <http://www.cs.hku.hk/research/techreps/document/TR-2018-01.pdf>. 2018-01

● Under review

- Augmenting Wireless Sensor Networks with Unmanned Aerial Vehicles. Submitted to SenSys 2018
- Malak: An Intelligent, High-performance and Resilient Software Defined Wireless Sensor Network System. Submitted to Mobicom 2018

Research Projects:

◆ Software Defined Wireless Sensor Network System	12/2017-03/2018
◆ UAV-Enabled Sensor System	08/2017-11/2017
◆ MBZIRC-2017 International Robotic Competition	01/2017-03/2017
UAV to locate, track and land on a moving vehicle automatically (Champion)	
◆ Autonomous takeoff and landing of the intelligent quadrotor (Thesis)	12/2014-06/2015
◆ Visual tracking gimbal system design	08/2014-11/2014
◆ Simulated Flight Control System Based on SINS	08/2013-12/2013
◆ Two-wheel self-balancing vehicle	11/2012-06/2013
◆ AVR-based multi-function smart vehicle	08/2012-11/2012

Professional skills

- ◆ Familiar with the principle of inertial navigation, integrated navigation algorithm and application, can be carry out aircraft attitude calculation and control algorithm design;
- ◆ Master Matlab control system modeling and simulation capabilities;
- ◆ Familiar with Robot operating system(ROS) programming and application;
- ◆ Master the C / C ++/Python language, data structure, with good code preparation habits;
- ◆ Master micro-controller programming and debugging capabilities, with 5 years of embedded system development experience.
- ◆ Familiar with IOT system design and programming.
- ◆ Master the Linux system programming;
- ◆ Familiar with GIT and Academic Writing;

Awards

Champion	Mohamed Bin Zayed International Robotics Challenge (MBZIRC) 2017.	03/2017
Grand Prize	The eighth Shaanxi province outstanding graduation design	06/2015
Second Prize	Xi'an University of Technology, 2014 Emerson "CONSIDER IT SOLVED"	08/2014
Outstanding Officer	of Automation Technology Association, Xi'an University of Technology	05/2013
First Prize	The 21st session of the " Innovation Prix" science and technology competition	11/2012

Research Interests

Robotic Control and Navigation, Motion Planning, Robotic Network

School Role

Minister of Xi'an University of Technology Automation Technology Association **09/2013-07/2014**