

JianfeiYang

No risk leads to disaster.

recent photo



contact

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languages

Chinese mother tongue
English fluency

research

Data mining
Machine learning
Computer vision

programming

♥ Python
Javascript, C++,
Matlab, Latex
CSS3 & HTML5
Verilog
R programming

education

- 2016–present **Doctor of Philosophy** Nanyang Technological University
School of Electrical and Electronic Engineering
Research Interests: **Indoor Positioning, UAV and UGV collaboration, Computer Vision**
(*object tracking and recognition*)
- 2012–2016 **Bachelor** of Software Engineering Sun Yat-sen University
School of Data and Computer Science (*Major GPA: 3.7/4.0, top 10%*)

experience

- 2014-2015 **TEACHING ASSISTANT** Sun Yat-sen University
Server for the Cloud Computing/Software Engineering Course.
- 2013-2014 **INTERNSHIP OF VISION ENGINEER IN DJI** DJI Intern
Dedicated to computer vision and UAV application as a vision engineer.
- 2013–2014 **FOUNDER OF MSTC** Operation
One of the founders of the Microsoft Technology Club in Zhuhai.
- 2012–2013 **CHAIRMAN OF STUDENT UNION** Management
The chairman of Student Union in the School of Mobile Information Engineering.

awards

- May. 2016 **Microsoft Beauty of Programming Challenge, Champion** Microsoft, IEEE
- Nov. 2015 **National Mobile Internet Innovation Contest, First Prize** Ministry of Industry
- Sep. 2015 **National Undergraduate IOT Design Contest, First Prize** Ministry of Education of China
- Aug. 2015 **HackNTU, Intel and Migo Prize** National Taiwan University
- Jun. 2015 **Unique Hack Day, Rank 2nd** Huazhong University of Science and Technology
- Apr. 2015 **American Mathematical Contest In Modeling, Meritorious Winner** International
- Mar. 2015 **Robot Hackathon in China, First Prize** ALDEBARAN
- Sep. 2014 **Ke-teng Cup Application Competition, First Prize** SYSU
- Sep. 2013 **Undergraduate First-class Scholarship and Giordano Scholarship** SYSU
- Dec. 2012 **Global Management Challenge 2nd Prize in China** GMC Committee

Publications

- 2015 **Compressive Perceptual Hashing Tracking with Online Foreground Learning** ROBIO
Published by IEEE International Conference on Robotics and Biomimetics (RO-BIO 2015, Zhuhai, Indexed by EI, Top Conference of robotics, First Author). Supported by National Natural Science Foundation of China.
- 2015 **Robust Vehicle Tracking Using Perceptual Hashing Algorithm** ICMLA
Published by IEEE International Conference of Machine Learning and Application (ICMLA 2015, Miami, Indexed by EI, First Author).
- 2015 **Traffic Detection System Based on Unmanned Aerial Vehicle Integrated Analysis(UAVIA) in E-Business Logistics** ICEBE
Published by IEEE International Conference on e-Business Engineering 2015 (ICEBE 2015, Beijing, indexed by EI and INSPEC, First Author)

projects

- 2013 **Low-cost communication system based on 3G** Provincial Scientific Research Project
Build a low-cost communication system based on image detection and subtraction, compression and transmission.
- 2014 **Visual system for a smart car** DJI Intern
Build a recognition system for a smart car. I use the color and texture information to recognize the extern objects and guide its direction.
- 2014 **Search engine based on Wechat** Ke-teng Cup Application Competition
Using data mining, I combine the searching result of Taobao, Dangdang, Amazon and Jingdong business platform and get the best result according to the requirement. The server is implemented by Python while the client is based on Wechat.
- 2015 **Naorrator Display Framework based on Robot Nao** Robot Nao Development
The display system is designed for The Canton Fair. I make the robot to control the PC and make presentations, whose technologies include socket, Nao-api and markup language.

interests

professional:

- Computer vision (Object recognition and tracking, image processing)
- Android app creation (Specific design for customer)
- Software design (Qt for C/C++ and Python)
- Data mining (Participate in a intelligent transportation planning project)
- Cloud computing (Familiar with Windows Azure, SAE, GAE, etc)
- Unmanned aerial vehicle (Control and visual system)

personal:

- Saxophone (Topest grade certified by the China Conservatory of Music)
- Ukulele (Playing and singing)
- Climbing and photography (Outward Bound Trainer certified by the Ministry of human resources and social security)