

WENBO CHEN

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EDUCATION

University of Science and Technology of China, Anhui, China

Sept 2017 - present

Computer and Information Science Elite Class(Information Major)

Major in: Automation

Overall GPA: 3.52(85.36)/4.3(100) (ranked 19 out of 93 students)

English Skill: CET-4(580), CET-6(516)

Core courses: Calculus(89/100), Complex Function(91/100), Signal and System(91/100),

Python and Deep Learning Basis(A+), Mathematical Equation(93/100), Introduction to Multimedia Technology(A),

Computer Graph, Digital Image Process, etc.

TECHNICAL SKILLS

Programming: C/C++, Python, MATLAB

Software & Tools: ROS, OpenCV, Pytorch, OpenGL

RESEARCH INTEREST

Computer Graphics, Computer Vision and Robotics

PROJECTS

Air Hockey Robot

- * A robot that can play air hockey with human player
- * The robot based on HBOT structure, using vision algorithm and control algorithm to achieve man-machine play.
- * I'm in charge of the overall design, implementation of the vision system and joint debugging.

Intelligent Cart

- * An intelligent cart that can follow the customers wherever they go, providing interactive interface and bill checking function to help customers pick the best product and save time.
- * I'm in charge of the vision system design and simulation.

Other Person Project

- * WeChat Robot: Multi-function Wechat Robot
- * ChafRenderer: Render Engine based on OpenGL
- * Other projects on my Github: [Link](#).

RESEARCH EXPERIENCE

Multi-Agent Systems Lab, USTC

September 2018 - November 2019

Research Focus: Robot Grasp, Object Detection, Robot Decision

Main Work:

- Using visual servo algorithm to adjust the arm before grasping to improve the fault tolerance.
- Predicting grasping order in clutter environment based on RGBD-camera.
- Two publications in 2019 WRC Symposium on Advanced Robotics and Automation (WRC SARA).

AWARD

2018: Second Prize in 1st Creative Competition of Intelligent Robots in Chinese Universities

2019: Bronze scholarship for outstanding students

Third Prize in 18th Robomaster in North Division

Second Prize in USTC "Internet+" college students' innovation and Entrepreneurship Competition

HOBBIES

Swimming, Travelling, Movies, Music, Coding, etc.

PUBLICATION

1. Y. Duan, T. Lei, P. Wu, N. Lin, W. Chen and X. Chen, "Vision-based Adjustment with Tolerant of Error before Grasping," 2019 WRC Symposium on Advanced Robotics and Automation (WRC SARA), Beijing, China, 2019, pp. 272-277.
2. P. Wu, W. Chen, H. Liu, Y. Duan, N. Lin and X. Chen, "Predicting Grasping Order in Clutter Environment by Using Both Color Image and Points Cloud," 2019 WRC Symposium on Advanced Robotics and Automation (WRC SARA), Beijing, China, 2019, pp. 197-202.