

# Zhe Hu

## Curriculum Vitae

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### Education

- 2017–Present **Ph.D.**, *Department of Biomedical Engineering, City University of Hong Kong, Hong Kong.*  
CGPA 4.2/4.3.
- 2012–2016 **Bachelor**, *Department of Computer Science, University of Electronic Science and Technology of China, China.* GPA 3.7/4.0 (rank 6/343).

### Work Experience

- 06-09, 2019 **Intern**, Robotics and Autonomous Driving Lab, Baidu Research, Beijing, China
- 04-08, 2018 **Intern**, Robotics and Autonomous Driving Lab, Baidu Research, Beijing, China
- 2016-2017 **Research Assistant**, City University of Hong Kong, Hong Kong, China
- 02-10, 2016 **Intern**, Dorabot Inc, Shenzhen, China

### Award

- 2015 **Best Engineering Award**, ABU Robocon (Asia-Pacific Robot Contest)
- 2015 **Champion**, National Robot Contest for College Students
- 2015 **Best Design Award**, National Robot Contest for College Students
- 2014 **Silver Award**, Creative Technology In Life of UESTC
- 2014 **The Third Prize**, Intel Cup Embedded System Design Invitational Contest
- 2014-2015 **National Scholarship**
- 2013-2014 **Samsung Scholarship**

### Research

- 2019 **3D Deformable Object Manipulation using Deep Neural Networks**  
Zhe Hu, Tao Han, Peigen Sun, Jia Pan, Dinesh Manocha  
**Accepted**, *RAL and IROS 2019*
- 2019 **A General Robotic Framework for Automated Cloth Assembly**  
Peigen Sun, Zhe Hu, Jia Pan  
**Accepted, Best Student Paper Award**, *ICARM 2019*
- 2019 **Safe Navigation with Human Instructions in Complex Scenes**  
Zhe Hu, Jia Pan, Tingxiang Fan, Dinesh Manocha  
*RAL and ICRA2019*
- 2019 **Cloth Manipulation Using Random-Forest-Based Imitation Learning**  
Biao Jia, Zherong Pan, Zhe Hu, Jia Pan, Dinesh Manocha  
*RAL and ICRA2019*

- 2018 **Three-Dimensional Deformable Object Manipulation Using Fast Online Gaussian Process Regression**  
Zhe Hu, Peigen Sun, Jia Pan  
*RAL and ICRA2018*
- 2018 **Manipulating Highly Deformable Materials Using a Visual Feedback Dictionary**  
Biao Jia, Zhe Hu, Jia Pan, Dinesh Manocha  
*ICRA2018*
- 2017 **Grasp Quality Evaluation and Planning for Objects with Negative Curvature**  
Shuo Liu, Zhe Hu, Hao Zhang, Mingu Kwon, Zhikang Wang, Yi Xu, Stefano Carpin  
*ICRA2017*

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## Patent

### **WO2018161305A1**

Grasp quality detection method, and method and system employing same

### **CN105477845A**

Method and system for predicting motion trajectory of shuttlecock

### **CN105513074B**

A shuttlecock robot camera calibration method and body to the world coordinate system

### **CN105549586B**

Badminton robot tracking human movement control method and system

### **CN105373128B**

Badminton robot and its audience targeting methods

### **CN106325302A**

Moving object position tracking platform, tracking device and tracking method

### **Submitted**

System and Method for Manipulating Deformable Objects