QIU Xuchong

1991/05/08
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Ph.D.

Computer Vision and Robotics

Education

2016-2020 **Ph.D. in Computer Science, Ecole des Ponts ParisTech, Paris, France**
Computer Vision, Deep Learning and Robotics

2014-2016 **Master's Degree in Robotics, Sorbonne University, Paris, France**
Robotics, Computer Vision and Programming

2012-2014 **Bachelor's Degree in Mechanics**, **Claude Bernard University Lyon 1, Lyon, France**

2010-2014 **Bachelor's Degree in Physics, Wuhan University, Wuhan, China**

Experiences

2016
(6 months)
Research Trainee, Institute for Intelligent Systems and Robotics, CNRS, Paris, France
Object: Robotic system simulating the utilization of tools by hands
Development of real-time robotic system with hybrid position/force control,
Synchronous object pose and contact force measurement, C++, Python

2015
(3 months)
Engineering Trainee, Wuhan Huazhong Numerical Control Co., Ltd, Chongqing, China
Object: Simulation of 6-Axes industrial robot dynamics and path planning
Simulation of industrial robot dynamics, Robot offline programming for assembly lines

2014
(4 months)
Trainee of end-of-studies internship, **Laboratory of Mechanics of Fluid**, **UCBL, Lyon, France**
Object: Measurement of concentration and debit in suspensions by ultrasonic waves

Projects

2019-2020 **Research project, Ecole des Ponts ParisTech, Paris, France**
Object: Geometric occlusion estimation and its application in depth refinement

2018-2019 **Research project, Ecole des Ponts ParisTech, Paris, France**
Object: Object 6D pose estimation and refinement for robotic manipulation tasks

2017-2018 **Research project, Ecole des Ponts ParisTech, Paris, France**
Object: Object visual tracking incorporating contexts and semantics

2015-2016 **Scholar project, Institute for Intelligent Systems and Robotics, CNRS, Paris, France**
Object: Control and navigation of mobile robots with multimodal information

2014-2017 **Other projects**
Delta robot modeling and control, Mobile robot modeling and simulation,
Simulation of quadrotor drone dynamics

Competences

Languages **English** – Fluent   **French** - Fluent   **Chinese** - Mother language

OS Linux, Windows   **Programming language** C/C++, Python, Matlab

Software PyTorch, OpenCV, Meshlab, Blender, OpenGL, ROS, SolidWorks, ADAMS, MS Office

Others Airbus project management course, Vice-president of student union

Interests

Photography, Football, Ski, Social activities, Art, Chess, High-tech, History