Ruijie Ren

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EDUCATION

Waseda University
PhD in Computer Science and Engineering   2023 - Present
Supervisor: Prof. Edgar Simo-Serra

Technical University of Denmark
Master of Science in Autonomous Systems   2021 – 2023
Major GPA: 11.6/12.0, Cumulative GPA: 10.9/12.0
Supervisor: Prof. Jeppe Revall Frisvad

University of Leeds
Bachelor of Engineering in Mechanical Engineering with Honours   2016 – 2020
First Class Honour (Average Score: 80.9, UK Grading System)

DISTINCTION

Japan Science and Technology Agency   2023 - 2026
Support for Pioneering Research Initiated by the Next Generation [Webpage]

SELECTED PUBLICATIONS

■ Jianxiong Shen, **Ruijie Ren**, Adria Ruiz, Francesc Moreno-Noguer, "Estimating 3D Uncertainty Field: Quantifying Uncertainty for Neural Radiance Fields", *IEEE International Conference on Robotics and Automation (**ICRA**), 2024*. [Paper]

■ Aoran Xiao, Jiaxing Huang, Weihao Xuan, **Ruijie Ren**, Kangcheng Liu, Dayan Guan, Shijian Lu, "3D Semantic Segmentation in the Wild: Learning Generalized Models for Adverse Conditions Point Clouds", *IEEE / CVF Computer Vision and Pattern Recognition Conference (**CVPR**), 2023*. [Paper]

■ **Ruijie Ren**, Mohit Gurnani Rajesh, Jordi Sanchez Riera, Adrian Lopez Rodriguez, Fan Zhang, Yu-run Tian, Guillem Alenyà, Antonio Agudo, Yiannis Demiris, Krystian Mikolajczyk, Francesc Moreno Noguer, "Grasp-Oriented Fine-grained Cloth Segmentation without Real Supervision", *International Conference on Machine Vision and Applications (**ICMVA**), 2023*. [Paper]

■ Weihao Xuan, **Ruijie Ren**, Siyuan Wu, Changhao Chen, "MaskVO: Self-Supervised Visual Odometry with Learnable Dynamic Mask", *IEEE/SICE International Symposium on System Integration (**SII**), 2022*. [Paper]

See more. . .

WORK EXPERIENCE

Nanyang Technological University (NTU)   Singapore
Research Assistant supervised by Prof. Shijian Lu   01/2022 - 03/2024

Institut de Robòtica i Informàtica industrial, IRI (CSIC-UPC)   Barcelona, Spain
Research Assistant supervised by Prof. Francesc Moreno-Noguer   03/2021 - 03/2022

Technical University of Denmark   Lyngby, Denmark
Teaching Assistant, Introduction to Machine Learning and Data Mining [Webpage]   Fall 2022

KEY SKILLS

Programming Languages: Python, MATLAB, LabView, C/C++, JavaScript.
Libraries: PyTorch, TensorFlow, OpenCV, WebGL.
Tools: LaTeX, Microsoft Office, Git, Docker, Linux.
Robotics: ROS, SolidWorks.

PROFESSIONAL DEVELOPMENT

MicroMasters in Robotics [Certificate]
Awarded from University of Pennsylvania (in collaboration with edX)   2018 - 2020