

Tun-Chi Tsai

Educations

2020 – Present

National Tsing Hua University (NTHU), Taiwan, *Master program in Information Systems and Applications.*

Thesis Topic: On Machine-Learning Based Point Cloud Compression Algorithms

2017 – 2020

National Tsing Hua University (NTHU), Taiwan, *Bachelor degree in Interdisciplinary Program of Science.*

Research Interests

Multimedia networking, 3D model reconstruction, computer vision, numerical analysis, augmented reality and virtual reality.

Publications

Working Experience

September 2020 – Present Research Assistant, Networking and Multimedia System Lab, Department of Computer Science, NTHU

Research Experience

Data selection in detecting opened/closed windows with different sensors.

In object detection, targets such as glass, water, foliage, smoke, or fog are usually hard to be detected.

We try to use different sensors such as rgb-camera, thermal-camera, depth-camera, lidar and ultrasound to find the opened/closed windows. We also analysis the image entropy and other metrics to sort out the pros and cons of different sensors in windows detection and finally select the best of all.