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ZI JIAN YEW

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

Ph.D in Computer Science 2017 – Current

- Research area: Computer vision and deep learning, with a focus on learning point cloud registration.
- Supervised by Asst. Prof. Gim Hee Lee

GEORGIA INSTITUTE OF TECHNOLOGY

Masters of Science (M.S.) in Computer Science 2015 –2017

- GPA: 4.0/4.0
- Specialization: Computational Perception and Robotics
- Part time studies under the Online Masters of Science in Computer Science (OMSCS) program

NATIONAL UNIVERSITY OF SINGAPORE

Bachelors of Engineering (Computer Engineering), First Class Honors 2007 – 2011

- GPA: 4.88/5.0
- Defence Science and Technology Agency (DSTA) undergraduate scholarship
- Student Exchange Program at Royal Institute of Technology (Kungliga Tekniska högskolan), Sweden
- Final Year Thesis: "Multi-image Transformation and Alignment for Panorama Image Stitching" under Adjunct Asst. Prof. Jo Yew Tham

RESEARCH INTERESTS

3D Computer Vision, Deep Learning, Point Cloud Registration

WORK EXPERIENCE

DSO NATIONAL LABORATORIES

Senior Member of Technical Staff Jan 2016 – Aug 2017

Member of Technical Staff June 2011 – Dec 2015

- Computer Vision algorithm developer
- Areas: Visual-Inertial navigation, Image Registration.

TEACHING EXPERIENCE

Teaching Assistant for CS4277/CS5477: 3D Computer Vision Sem 2, AY19/20

Teaching Assistant for CS5340: Uncertainty in AI Sem 1, AY20/21

- Duties: Designing assignments, briefing students on assignments and grading assignments.

PUBLICATIONS

- Zi Jian Yew and Gim Hee Lee. Learning Iterative Robust Transformation Synchronization. In *International Conference on 3D Vision (3DV)*, 2021
- Zi Jian Yew and Gim Hee Lee. City-scale Scene Change Detection using Point Clouds. In *International Conference on Robotics and Automation (ICRA)*, 2021
- Zi Jian Yew and Gim Hee Lee. RPM-Net: Robust Point Matching using Learned Features. In *Conference on Computer Vision and Pattern Recognition (CVPR)* 2020.
- Ziquan Lan, Zi Jian Yew, Gim Hee Lee. Robust Point Cloud Based Reconstruction of Large-Scale Outdoor Scenes. In *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019.
- Zi Jian Yew and Gim Hee Lee. 3DFeat-Net: Weakly Supervised Local 3D Features for Point Cloud Registration. In *European Conference on Computer Vision (ECCV)*, 2018.

SERVICE

Journal Review

- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)
- ISPRS Open Journal of Photogrammetry and Remote Sensing
- Pattern Recognition

Conference Review

- Asian Conference on Machine Learning (ACML) 2019, 2020
- AAAI Conference on Artificial Intelligence 2021
- International Conference on 3D Vision (3DV) 2020 – Outstanding reviewer award
- International Conference on Computer Vision (ICCV) 2021