Chanyoung Kim

Curriculum Vitae

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Research Interests

Machine learning, Deep learning, Computer vision
Multi-modal representation learning, 3D Computer vision

Education

Sejong University Seoul, South Korea
Bachelor of Intelligent Mechatronics Engineering *Mar. 2017 – Feb. 2023*
Overall GPA : 3.96 / 4.5, Major GPA : 4.03 / 4.5

Publications

[1] **LISA: Localized Image Stylization with Audio via Implicit Neural Representation**, S.H.Lee*, **C.Kim***, W.Byeon, S.H.Yoon, J.Kim†, S.Kim† (* equally contributed), *arXiv 2022* [PDF]
[2] **Robust Sound-Guided Image Manipulation**, S.H.Lee, **C.Kim**, W.Byeon, G.Oh, J.Lee, S.H.Yoon, J.Kim*, S.Kim*, *arXiv 2022* [PDF]
[3] **ORA3D: Overlap Region Aware Multi-view 3D Object Detection**, W.Roh, G.Chang, S.Moon, G.Nam, **C.Kim**, Y.Kim, S.Kim*, J.Kim*, *The British Machine Vision Conference (**BMVC**), 2022* [PDF]
[4] **Sound-Guided Semantic Video Generation**, S.H.Lee, G.Oh, W.Byeon, **C.Kim**, W.J.Ryoo, H.Choi, S.H.Yoon, J.Bae, J.Kim*, S.Kim*, *European Conference on Computer Vision (**ECCV**) 2022* [PDF]
[5] **Sound-Guided Semantic Image Manipulation**, S.H.Lee, W.Roh, W.Byeon, S.H.Yoon, **C.Kim**, J.Kim*, S.Kim*, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**) 2022* [PDF]

Research Experience

Computer Vision Lab @ Korea University Feb. 2021 – Dec. 2022
Advisor: Prof. Sangpil Kim (Dept. of AI), Prof. Jinkyu Kim (Dept. of CSE)
- Multi-modal Representation Learning *(joint research with NVIDIA Research)*

Academic Service

Conference Reviewer
- *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) 2023*

Awards & Honors

LAB Start-up 2022 ***1st Place*** Feb. 2022
Sejong Scholarship for Outstanding GPA ***3rd Place*** Sep. 2021
2021 Creative Makers Competition ***1st Place*** Jun. 2021
2020 International Robot Contest ***5th Place*** Nov. 2020
Seoul PM Hackathon ***5th Place*** Jun. 2019
4th Sejong SW Hackathon ***2nd Place*** Jun. 2018
XXIII Pyeongchang Olympic Winter Games ***Medal of Contribution*** Feb. 2018

Project Experiences

Personal Privacy Free Autonomous Flight Drone Platform with Event Vision Jul. 2021 – Feb.2022
- Funded by National Research Foundation of Korea (NRF) and GWU, Washington D.C., USA

Real-time Object Detection for Embedded Systems on Drones Sep. 2021 – Dec. 2021
- Proposed a light-weight object detector for drone vision.

Ultra-Light Weight Image Classification Model for Edge Computing Systems Feb. 2021 – Jun. 2021
- Developed light weight food image classification model for oven.
- Funded by GE Appliances a Haier company

Skills

Programming

- Fluent in Python, Pytorch, Tensorflow, Scikit-Learn, Shell Script, Git, LaTeX
- Have foundation for C, Photoshop

Languages

- Native speaker in Korean
- Fluent in English (TOEIC 925)
- 2 years at Mckinley School, Pasadena, CA, United States (2006 – 2008)