Kwanyong Park

Website: pkyong95.github.io
Email: pkyong7@kaist.ac.kr

Research Interests

- Video Understanding and Processing
- Simulated Learning and Domain Adaptation
- Unsupervised and Self-supervised Learining

Research Experiences

Adobe Research (Remote) — San Jose, CA
Research Intern, Deep Learning Group, Creative Intelligence Lab — Apr.2021–Dec.2021

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, Korea
Research Assistant, Robotics and Computer Vision Lab — Mar.2018–Present

Education

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, Korea
Ph.D. in Electrical Engineering — Sep.2019–Present
Advisor: Prof. In So Kweon

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, Korea
M.S. in Electrical Engineering — Mar.2018–Aug.2019
Advisor: Prof. In So Kweon

- Thesis: "Learning unpaired video-to-video translation for domain adaptation"

Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, Korea
B.S., double major in Mechanical Engineering and Electrical Engineering — Mar.2013–Feb.2018

Publications

- A Unified Learning Framework for Large Vocabulary Video Object Detection
  *Sanghyun Woo, **Kwanyong Park**, Seoung Wug Oh, In So Kweon, Joon-Young Lee*
  European Conference on Computer Vision (ECCV), 2022

- Tracking by Associating Clips
  *Sanghyun Woo, **Kwanyong Park**, Seoung Wug Oh, In So Kweon, Joon-Young Lee*
  European Conference on Computer Vision (ECCV), 2022

- Per-Clip Video Object Segmentation
  ***Kwanyong Park**, Sanghyun Woo, Seoung Wug Oh, In So Kweon, Joon-Young Lee*
  Conference on Computer Vision and Pattern Recognition (CVPR), 2022

- Unsupervised Domain Adaptation for Video Semantic Segmentation
  Kwanyong Park, Inkyu Shin*, Sanghyun Woo, In So Kweon (*: equal contributions)*
  arXiv, 2021

- LabOR: Labeling Only if Required for Domain Adaptive Semantic Segmentation
  Inkyu Shin, Dong-Jin Kim, Jae Won Cho, Sanghyun Woo, ***Kwanyong Park****, In So Kweon*
  International Conference on Computer Vision (ICCV), 2021 (**Oral**)
  - *Received Qualcomm Innovation Award 2021.*

- Discover, Hallucinate, and Adapt: Open Compound Domain Adaptation for Semantic Segmentation
  Kwanyong Park*, Sanghyun Woo, Inkyu Shin, In So Kweon*
  Neural Information Processing Systems (NeurIPS), 2020
  - *Received Qualcomm Innovation Award 2021.*

- Align-and-Attend Network for Globally and Locally Coherent Video Inpainting
  Sanghyun Woo, Dahun Kim, ***Kwanyong Park****, Joon-Young Lee, In So Kweon*
  British Machine Vision Conference (BMVC), 2020

- Preserving Semantic and Temporal Consistency for Unpaired Video-to-Video Translation
  Kwanyong Park*, Sanghyun Woo, Dahun Kim, Donghyeon Cho and In So Kweon*
  ACM Multimedia (MM), 2019

Reviewer Experiences

- Conference on Computer Vision and Pattern Recognition (CVPR): 2022
- European Conference on Computer Vision (ECCV): 2022
- British Machine Vision Conference (BMVC): 2020,2021

Awards & Honors

- Qualcomm Innovation Fellowship — Nov.2021
- KAIST Scholarship — Sep.2019–Present
- SIGMM Student Travel Grants — Nov.2019
- Korea Government Scholarship — Mar.2018–Aug.2019
- Best M.S students, Eun Chong-Kwan Scholarship — Mar.2018

Teaching

Teaching Assistant at KAIST EE

- EE405 Electronics Design Lab.<Network of Smart Things> (Spring, 2019)
- EE209 Programming Structure for Electrical Engineering (Fall, 2018)
- EE305 Introduction to Electronics Design Lab. (Fall, 2018)

Computer Skills

- **Language:** Python, Matlab, C
- **Libraries:** PyTorch

References

Prof. In So Kweon (M.S. - Ph.D. advisor at KAIST)
KEPCO Chair Professor, School of Electrical Engineering, KAIST
Email: iskweon77@kaist.ac.kr

Dr. Joon-Young Lee (Internship mentor)
Senior Research Scientist, Adobe Research
Email: jolee@adobe.com

Dr. Seoung Wug Oh (Internship mentor)
Research Scientist, Adobe Research
Email: seoh@adobe.com