Xu Yin

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Education

Department of Computer Science, KAIST — Daejeon, South Korea
Ph.D. in Computer Science — 2020.3 - 2024.12 *(expected)*
- Advisor: Prof. Sung-Eui Yoon
- Research area: Visual Recognition; LLM for robotics

Department of Computer Engineering, Inha University — Incheon, South Korea.
M.S. in Computer Science. — 2018.02 - 2020.02
- Advisor: Prof. Byeong-Seok Shin

Chongqing University of Posts and Telecommunications — Chongqing, China
B.E. in Information Security — 2013.09 - 2017.06

Publications

1. **Xu Yin**, Fei Pan, Guoyuan An, Yuchi Huo, Zixuan Xie, and Sung-Eui Yoon. OpenSlot: Mixed Open-Set Recognition with Object-Centric Learning. *Under review*, 2024. [arxiv]

2. **Xu Yin**, Woobin Im, Dongbo Min, Yuchi Huo, Fei Pan, and Sung-Eui Yoon. Fine-grained Background Representation for Weakly Supervised Semantic Segmentation. *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)*, 2024. [project][code][arxiv]

3. Fei Pan, **Xu Yin**, Seokju Lee, Axi Niu, Sung-Eui Yoon, and In So Kweon. MoDA: Leveraging Motion Prior from Videos for Advancing Unsupervised Domain Adaptation in Semantic Segmentation. *IEEE / CVF Conference on Computer Vision and Pattern Recognition Workshop (CVPRW)*, 2024. [code][arxiv]
   Best Paper Award

4. Fei Pan, Dong He, **Xu Yin**, Chenshuang Zhang, and Munchurl Kim. MacDC: Masking-augmented Collaborative Domain Congregation for Multi-target Domain Adaptation in Semantic Segmentation. *IEEE Intelligent Vehicles Symposium (IV)*, 2024.[paper]
   Best Paper Nominated

5. Xiaoqun Yu, Jiansong Wan, Guoyuan An, **Xu Yin,** and Shuping Xiong. A novel semi-supervised model for pre-impact fall detection with limited fall data. *Engineering Applications of Artificial Intelligence (EAAI)*, 2024. [paper]

6. **Xu Yin**, Dongbo Min, Yuchi Huo, and Sung-Eui Yoon. Contour-Aware Equipotential Learning for Semantic Segmentation. *IEEE Transactions on Multimedia (TMM)*, 2022. [project][code][arxiv]

7. **Xu Yin**, Yan Li, and Byeong-Seok Shin. Medical Image Processing with Contextual Style Transfer. *Human-centric Computing and Information Sciences (HCIS)*, 2020. [paper]

8. **Xu Yin**, Yan Li, and Byeong-Seok Shin. DAGAN: A Domain-Aware Method for Image-to-Image Translations. *Complexity*, 2020.[paper]

9. **Xu Yin**, Yan Li, and Byeong-Seok Shin. TGV Upsampling: A Making-Up Operation for Semantic Segmentation *Computational Intelligence and Neuroscience*, 2019.[paper]

Awards and Honors

- **International Student Scholarship (full granted)**, KAIST — 2020.03-present
- **Jungseok International Scholarship**, Inha University — 2018.02-2020.02
- **Honorable Winner**, International Mathematical Contest in Modeling (MCM)/ Interdisciplinary Contest in Modeling (ICM). — 2016. 02
- **Second Prize in Chongqing City**, Mathematical Contest in Modeling for college students Competition Committee, — 2015.09

Skills

Languages: Chinese (native), English (IELTS 7).
Programming: `Python, C++, MATLAB ,JAVA WEB.`

Services

Reviewers for: *IEEE Transactions on Multimedia,*
IEEE Transactions on Neural Networks and Learning Systems
Teaching Assistant for: *CSE2104: Internet Programming. Inha University,*
CSE1101: Objective Programming (C++). Inha University