# **Ho-Joong Kim**

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#### **EDUCATION**

Korea University 2021 - present

Ph. D. Candidate in Dept. of Artificial Intelligence

Advisor: Prof. Seong-Whan Lee

Hansung University 2015 - 2021

B.S. in Dept. of Industrial Management Engineering and Computer Engineering

#### **PUBLICATIONS**

- [1] **Ho-Joong Kim**, Yerang Lee, Jung-Ho Hong, and Seong-Whan Lee, DiGIT: Multi-Dilated Gated Encoder and Central-Adjacent Region Integrated Decoder for Temporal Action Detection Transformer, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2025.
- [2] Jung-Ho Hong, **Ho-Joong Kim**, Kyu-Sung Jeon, and Seong-Whan Lee, Comprehensive Information Bottleneck for Unveiling Universal Attribution to Interpret Vision Transformers, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2025.
- [3] Ho-Joong Kim, Jung-Ho Hong, Heejo Kong, and Seong-Whan Lee, TE-TAD: Towards Full End-to-End Temporal Action Detection via Time-Aligned Coordinate Expression, IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2024.
- [4] Yearang Lee, Ho-Joong Kim, and Seong-Whan Lee, Text-Infused Attention and Foreground-Aware Modeling for Zero-Shot Temporal Action Detection, Advances in Neural Information Processing Systems (NeurIPS), 2024.
- [5] Heejo Kong, Suneung Kim, **Ho-Joong Kim**, and Seong-Whan Lee, Unknown-Aware Graph Regularization for Robust Semi-supervised Learning from Uncurated Data, *AAAI Conference on Artificial Intelligence* (*AAAI*), 2024.
- [6] **Ho-Joong Kim**, and Seong-Whan Lee, Ensuring Spatial Scalability with Temporal-Wise Spatial Attentive Pooling for Temporal Action Detection, *Neural Networks*, 2024.
- [7] Yehna Kim, **Ho-Joong Kim**, and Seong-Whan Lee, Description Attribute-Enhanced Spatio-Temporal Zero-shot Action Recognition, *International Conference on Pattern Recognition and Artificial Intelligence* (*ICPRAI*), 2024.
- [8] Yu-Won Lee, Myeong-Seok Oh, **Ho-Joong Kim**, and Seong-Whan Lee, Enhancing Discriminative Ability among Similar Classes with Guidance of Text-Image Correlation for Unsupervised Domain Adaptation, *International Joint Conference on Neural Networks (IJCNN)*, 2023, Oral Presentation.
- [9] Seong-Yun Jeong, Ho-Joong Kim, Myeong-Seok Oh, Gun-Hee Lee, and Seong-Whan Lee, Temporal-Invariant Video Representation Learning with Dynamic Temporal Resolutions, IEEE International Conference on Advanced Video and Signal Based Surveillance (AVSS), 2022, Oral Presentation.
- [10] **Ho-Joong Kim**, and Sung-Hoon Jung, SCGN: Novel Generative Model using the Convergence of Latent Space by Training, *Electronic Letters*, 2020
- [11] Ho-Joong Kim, and Sung-Hoon Jung, SOGN: Novel Generative Model using Self Organizing Map, Electronic Letters, 2019.

### **GRANT**

Development of High-Performance Visual BigData Discovery Platform for Large-Scale Realtime Data Analysis, Funded by the Korea government (MSIT) 2021 - 2023

### **AWARDS**

## PATENT

Apparatus and method for detecting action based on weakly-supervised learning using self-guided semantic allocation, Patent No. 10-2023-0107835, Republic of Korea, 2023.