TaeYoung Lee

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Education

Ph.D. **Korea University, Republic of Korea**, Artificial Intelligence — Sept. 2023 - Current
- VGI Lab (Homepage)
- GPA: 4.225/4.3 (4.44/4.5)
- Advisor: Gyeong-Moon Park

B.S. **Kyung Hee University, Republic of Korea**, Computer Science and Engineering — Mar. 2018 - Aug. 2023
- GPA: 4.02/4.3 (4.27/4.5)
- Advisor: Gyeong-Moon Park

B.S. **Kyung Hee University, Republic of Korea**, Mechanical Engineering — Mar. 2018 - Aug. 2023
- GPA: 4.02/4.3 (4.27/4.5)

RESEARCH KEYWORDS

Machine Unlearning

Concept Erasing	Dec. 2024 - Current
Anti-Personalization	Jul. 2024 - Current
Class-wise & Instance-wise Unlearning	Dec. 2023 - Current

Generative Models

Diffusion Models	Jul. 2024 - Current
Personalization of Diffusion Models	Jul. 2024 - Current
Privacy Protection in Generative Models	Nov. 2023 - Current
Generative Adversarial Networks	Jun. 2023 - Jun. 2024

Robot Navigation

Visual Navigation	Dec. 2024 - Current

Continual Learning

Class Incremental Learning	Sept. 2022 - Jun. 2023
Out-of-Distribution Detection	Sept. 2022 - Jun. 2023

Publications

International Conference

[2] **ESC: Erasing Space Concept for Knowledge Deletion**
Tae-Young Lee*, Sundong Park*, Minwoo Jeon*, Hyoseok Hwang†, Gyeong-Moon Park†
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), Nashville, U.S.A., Jun. **2025**.
To Do

[1] **Generative Unlearning for Any Identity**
Juwon Seo*, Sung-Hoon Lee*, **Tae-Young Lee***, Seungjun Moon, Gyeong-Moon Park†
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, U.S.A, Jun. **2024**.
Manuscript

Domestic Conference

[3] **OutLaST: Out-of-Distribution-based Continual Learning via Sample Selection and Task Prediction**
Sung-Hoon Lee ,**Tae-Young Lee*** and Gyeong-Moon Park†
Korea Software Congress (KSC), Busan, Republic of Korea, Dec. 2023.
Manuscript

[2] **Prompt based Continual Learning with OOD Score based Replay Buffer**
Tae-Young Lee* and Gyeong-Moon Park†
Korea Software Congress (KSC), Jeju Island, Republic of Korea, Dec. 2022.
Manuscript

[1] **Vision Transformer Uncertainty Estimation With Image Tokens**
Jae-Ho Lee*, **Tae-Young Lee***, and Gyeong-Moon Park†
Korea Computer Congress (KCC), Jeju Island, Republic of Korea, Jun. 2022.
Manuscript

Patents

[3] Gyeong-Moon Park, **Tae-Young Lee**, Juwon Seo
Method for Performing Unlearning of People in a Generative Model and Computing Device for Performing the Same
(*US Patent Application (18/925,176), Oct. 24, 2024.*)

[2] Gyeong-Moon Park, **Tae-Young Lee**, Sundong Park, Minwoo Jeon, Hyoseok Hwang
Method for Feature-level Unlearning in Deep Neural Networks and Computing Device for Executing the Method
(*Korean Patent Application (10-2024-0087740), Jul. 3, 2024.*)

[1] Gyeong-Moon Park, **Tae-Young Lee**, Juwon Seo
Method for Performing Unlearning of People in a Generative Model and Computing Device for Performing the Same
(*Korean Patent Application (10-2024-0060152), May. 5, 2024.*)

References

Advisor Gyeong-Moon Park — Korea University, Republic of Korea
Email: gm-park@korea.ac.kr
Homepage: Visual & General Intelligence Lab

Prof Hyoseok Hwang — Kyung Hee University, Republic of Korea
Email: hyoseok@khu.ac.kr
Homepage: Artificial Intelligence & Robotics Lab

Prof Jong Hwan Ko — Sungkyunkwan University, Republic of Korea
Email: jhko@skku.edu
Homepage: Intelligent & Resource-Efficient Image Processing and & Systems Design Lab

Academic Services

Conference Reviewer

- International Conference on Machine Learning (ICML), 2025

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2025 (Official)
- Advances in Neural Information Processing Systems (NeurIPS), 2024

Teaching Assistant

SWCON10401: Web/Python Programming

Sep. 2023 - Dec. 2023 Teaching Assistant Kyung Hee University, Republic of Korea

AI300100: Advanced Deep Learning

Mar. 2024 - Jun. 2024 Teaching Assistant Kyung Hee University, Republic of Korea