

Curriculum Vitae

In-Pyo Song

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EDUCATION

B.S., Major in Mechanical Engineering, Korea Aerospace University (KAU), Go-yang, Rep. Korea, Feb. 2023
<https://www.kau.ac.kr>

PROFESSIONAL EXPERIENCE

Sungkyunkwan University (SKKU), Seoul, Rep. Korea Sep. 2023 - Current
<http://www.skku.edu>
M.S. Student, Department of Immersive Media Engineering
• Laboratory: Intelligent and Interactive Systems Lab
• GPA: 3.79 / 4.0

Indiana University Bloomington, Bloomington, IN, USA Jun. 2024 – Aug. 2024
<https://bloomington.iu.edu/>
Research Intern, Computer Vision Lab (<http://vision.soic.indiana.edu>)

PUBLICATIONS

International Conference

1. **Inpyo Song**, Jangwon Lee, “*REAL-TIME TRAFFIC ACCIDENT ANTICIPATION WITH FEATURE REUSE*”, IEEE International Conference on Image Processing (**ICIP**), Sep. 2025. [Accepted]
2. **Inpyo Song**, Hyemin Hwang, Jangwon Lee, “*PAWPRINT: WHOSE FOOTPRINTS ARE THESE? IDENTIFYING ANIMAL INDIVIDUALS BY THEIR FOOTPRINTS*”, IEEE International Conference on Image Processing (**ICIP**), Sep. 2025. [Accepted]
3. **Inpyo Song**, Sanghyeon Lee, Minjun Joo, Jangwon Lee, “*Anomaly Detection for People with Visual Impairments Using an Egocentric 360-Degree Camera*”, IEEE/CVF Winter Conference on Applications of Computer Vision (**WACV**), Feb. 2025.
4. **Inpyo Song**, Jangwon Lee, “*SFTrack: A Robust Scale and Motion Adaptive Algorithm for Tracking Small and Fast Moving Objects*”, IEEE/RSJ International Conference on Intelligent Robots and Systems (**IROS**), Oct. 2024. (Selected **Long Oral**)
5. **Inpyo Song**, Jongmin Lee, Moonwook Ryu, Jangwon Lee, “*Motion-Aware Heatmap Regression for Human Pose Estimation in Videos*”, International Joint Conferences on Artificial Intelligence (**IJCAI**), Aug. 2024.
6. **Inpyo Song**, Minjun Joo, Joonhyung Kwon, Jangwon Lee, “*Video Question Answering for People with Visual Impairments Using an Egocentric 360-Degree Camera*”, In IEEE Conference on Computer Vision and Pattern Recognition Workshop (**CVPRW**) on First Joint Egocentric Vision (EgoVis), Jun. 2024.
7. **Inpyo Song**, Jangwon Lee, “*Scale and Motion Adaptive Multi-Object Tracking Algorithm for Unmanned Aerial Vehicles*”, IEEE International Conference on Robot & Human Interactive Communication (**RO-MAN**), Late-Breaking Reports, Aug. 2023.

International Journal

1. **Inpyo Song**, Moonwook Ryu, Jangwon Lee, “*Action-Conditioned Contrastive Learning for 3D Human Pose and Shape Estimation in Videos*”, Computer Vision and Image Understanding (**CVIU**), Sep. 2024. (IF: 4.3, **Q1**(2023))

Korean Domestic Conference

1. Jongmin Lee*, **Inpyo Song*** (Equal Contribution), Moonwook Ryu, Jangwon Lee, “*Smooth and Consistent Pose Estimation with Intersections Module*”, The Korean Institute of Broadcast and Media Engineers (KIBME) Summer Conference, Jun. 2024.
2. **Inpyo Song**, Jangwon Lee, “*Multi-task Learning in Facial Kinship Verification*”, The Korean Institute of Broadcast and Media Engineers (KIBME) Summer Conference, Jun. 2023.

Korean Domestic Journal

1. **Inpyo Song**, Jangwon Lee, “*Teacher Response Entropy Based Adaptive Knowledge Distillation*”, Journal of Korean Institute of Intelligent Systems (KIIS), Dec. 2024.
2. **Inpyo Song**, Jangwon Lee, “*Rule-based Zero-shot Video Anomaly Detection Using Object Detection and Semantic Segmentation*”, Journal of Broadcast Engineering (JBE), Vol. 29, No. 6, Nov. 2024.

PATENT

Korean Domestic Patent

1. Jangwon Lee, **Inpyo Song**, “*Apparatus for Predicting Posture and Shape of 3D Human and Method Thereof*”, Research & Business Foundation of Sungkyunkwan University, No. 10-2024-0039467, Mar. 2024.
2. Jangwon Lee, **Inpyo Song**, Minjun Ju, Joonhyung Kwon, “*Apparatus for Detecting Abnormality and Method Thereof*”, Research & Business Foundation of Sungkyunkwan University, No. 10-2024-0031055, Mar. 2024.
3. Jangwon Lee, Jongmin Lee, **Inpyo Song**, “*Apparatus for Estimating Human Pose and Method Thereof*”, Research & Business Foundation of Sungkyunkwan University, No. 10-2023-0186741, Oct. 2023.

International Patent

1. Jangwon Lee, **Inpyo Song**, Minjun Joo, Junhyung Kwon, “*Apparatus for Detecting Abnormality and Method Thereof*”, Research & Business Foundation of Sungkyunkwan University, No. 19/062,397, Feb. 2025.
2. Jangwon Lee, Jongmin Lee, **Inpyo Song**, “*Apparatus for Estimating Human Posture and Method Thereof*”, Research & Business Foundation of Sungkyunkwan University, No. 18/979,379, Dec. 2024.

HONORS AND AWARDS

- **Excellence Award**, Jongmin Lee, **Inpyo Song**, Hannah Cho, “*Multimodal VQA-Based Tutoring System for the Digital Transformation of Hands-On Education*”, SKKU Graduate Student Startup Competition, Oct. 2024.
- **President’s Award from IITP** (Institute of Information & Communications Technology Planning & Evaluation), Jongmin Lee, **Inpyo Song**, “*Motion-Aware Heatmap Regression for Human Pose Estimation in Videos*”, 2024 Digital Innovation Talent Symposium, Aug. 2024.
- **Encouragement Award**, **Inpyo Song**, “*Technological Social Responsibility: Anomaly Detection for People with Visual Impairments Using an Egocentric 360-Degree Camera*”, SKKU Research Matters, Feb. 2024.
- **Grand Award**, Heetae Lee, **Inpyo Song**, Suho Jang, “*Generating Digital Twin using Instance-NeRF*”, KAU Start-up Idea Competition, Dec. 2022.

RESEARCH INTEREST

Computer Vision : 2D/3D Human Pose Estimation, Anomaly Detection, Object Tracking, Autonomous Driving
Deep Learning : Knowledge Distillation
Multi-Modal : Visual Question Answering

SERVICE

International Conference

1. IEEE International Conference on Development and Learning (ICDL), 2024, Emergency Reviewer
2. IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2025, Emergency Reviewer

REFERENCE

Jang-won Lee :

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