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Education

KNUT(Korea National University of Transportation) (Advisor: Prof. Heesung Lee) — *Uiwang-si, Korea*
M.S. in Department of Railroad Convergence System — *Mar. 2026 - Present*

KNUT(Korea National University of Transportation) — *Uiwang-si, Korea*
B.S. in Department of Rolling Stock System Engineering — *Mar. 2024 - Feb. 2026*

WSI(Woosong College) — *Daejeon, Korea*
A.S. in Department of Railway Vehicle — *Mar. 2022 - Feb. 2024*

Awards

2026 **Best Paper Award**, KAIS Spring Conference 2026 — *Jeju, Korea*

Publications

JOURNAL

2026

A Deep Learning-Based Vision Approach for Railway Track Curve Radius Classification

Jeongwon Kim, Beomseong Kim and Heesung Lee*

*Journal of the Korea Academia-Industrial Cooperation Society (**JKAIS**)*, Oct. 2026.

CONFERENCE

2026

Automated Product Counting System Based on Deep Learning Image Segmentation

Jeongwon Kim, Seungmin Lee, Jongbum Lee, Sungjun Yun, and Heesung Lee*

2026 Autumn Conference of the Korean Society for Railway, Jeju, Korea, Oct. 2026.

Multimodal Image Fusion-Based Glass Detection Algorithm

Jeongwon Kim, Seungmin Lee, and Heesung Lee*

KAIS Spring Conference, Jeju, Korea, Jun. 2026.

Tempered Glass Detection and Tracking Algorithm Using Image Data

Seungmin Lee, Jeongwon Kim, Taeyun Kim, Huiwon Lee, and Heesung Lee*

*38th Workshop on Image Processing and Image Understanding (**IPIU**)*, Jeju, Korea, Feb. 2026.

2025

Hybrid Computer Vision Approach for Smart Glass Size Measurement

Seungmin Lee, Beomseong Kim, Jeongwon Kim, and Heesung Lee*

*8th Artificial Intelligence and Cloud Computing Conference (**AICCC**)*, Tokyo, Japan, Dec. 2025.

Deep Learning-based Railroad Track Detection Image Segmentation Algorithm

Jeongwon Kim, Seungmin Lee, and Heesung Lee*

2025 Autumn Conference of the Korean Society for Railway, Jeju, Korea, Oct. 2025.

Autoencoder-based Battery Pack Welding Defect Detection System

Seungmin Lee, Jeongwon Kim, and Heesung Lee*

2025 Autumn Conference of the Korean Society for Railway, Jeju, Korea, Oct. 2025.