



YEIN PARK

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EDUCATION

Sogang University Seoul, South Korea 📍

📅 Mar 2020 ▶ Aug 2025

Combined M.S./Ph.D. Program in Electronic Engineering

GPA: 3.75/4.5

Advisor: Prof. Suk-Ju Kang

Lab: Vision & Display Systems Lab.

Research Interests: Time-Series Analysis; Deep Learning; Remaining Useful Life Prediction; Prognostics and Health Management

Dongduk Women's University Seoul, South Korea 📍

📅 Mar 2014 ▶ Aug 2018

B.S in Department of Computer Science

GPA: 3.49/4.5

PUBLICATIONS

International Journal

- "Query-Vector-Focused Recurrent Attention for Remaining Useful Life Prediction", *IEEE Transactions on Reliability*, 2025.
- "Luminance Compensation for Stretchable Displays Using Deep Visual Feature-Optimized Gaussian-Weighted Kernels", *Journal of the Society for Information Display*, 2025.
- "Self-Supervised Anomaly Segmentation for Surface Defect Inspection in Display Panels", *Journal of the Society for Information Display*, 2025.
- "Pseudo-Label-Vector-Guided Parallel Attention Network for Remaining Useful Life Prediction", *IEEE Transactions on Industrial Informatics*, 2023.

International Conference

- "Deformation-Aware Luminance Compensation Using Gaussian-Weighted Kernels for Stretchable Displays", *SID Symposium Digest of Technical Papers*, 2025.
- "Remaining Useful Life Prediction through Meaningful Feature Extraction Using SHAP", *International Meeting on Information Display (IMID)*, 2023.
- "Selective TransHDR: Transformer-Based Selective HDR Imaging Using Ghost Region Mask", *European Conference on Computer Vision (ECCV)*, 2022.
- "Parallel Attention Network using Vector with High Correlation with Label for Remaining Useful Life Estimation", *AAAI 2022 Workshop on AI for Design and Manufacturing (ADAM)*, 2022.
- "Anomaly segmentation network using self-supervised learning", *AAAI 2022 Workshop on AI for Design and Manufacturing (ADAM)*, 2022.
- "Deep Learning-Based Image Enhancement for HDR Imaging", *SID Symposium Digest of Technical Papers*, 2022.
- "Voice Pathology Detection using Small Imbalanced Dataset", *International Conference on Next Generation Computing (ICNGC)*, 2022.

- “Attention-based bidirectional LSTM-CNN model for remaining useful life estimation”, *IEEE international symposium on circuits and systems (ISCAS)*, 2021.
- “HDR Image Generator Focused on Saturated Region Restoration with Contextual Loss”, *International SoC Design Conference (ISOCC)*, 2020.
- “Deep Learning-based HDR Generator Focused On Saturated Area Restoration”, *International Meeting on Information Display (IMID)*, 2020.

Domestic Journal & Conference

- “Transformer 기반의 HDR 영상 복원 알고리즘을 통한 효과적인 Ghost Artifact 제거”, *한국방송미디어공학회 5월 특집호*, 2024.
- “시계열 데이터 기반의 이상치 검출을 위한 설명 가능한 그래프 신경망 구조 개발”, *대한전자공학회 논문지*, 2024.
- “Wavelet 변환을 이용한 그래프 기반 시계열 데이터 이상치 검출”, *대한전자공학회 제33회 신호처리합동학술대회*, 2023.
- “딥러닝 기반 Deraining 기법 비교 및 연구 동향”, *대한임베디드공학지*, 2021.

RESEARCH PROJECTS

Display Luminance and Color Compensation Algorithm Development | DB GlobalChip

📅 Nov 2023 ▶ Present

- Algorithm development for optimal compensation curves to correct luminance and color distortion in displays

Stretchable AMLED Core Material/Device Technology | National Research Foundation of Korea

📅 Jan 2024 ▶ Dec 2024

- Image distortion and resolution degradation compensation under 30% bidirectional stretch in irregular conditions

Explainable AI for Predictive Maintenance in Manufacturing Equipment | LG Display

📅 Oct 2022 ▶ Sep 2023

- Development of fault-type-specific explainable AI models for remaining useful life estimation and anomaly detection

Advanced Industrial AI Algorithms | LG Display

📅 Mar 2021 ▶ Feb 2022

- Development of semi-supervised anomaly detection and reinforcement learning-based optimization algorithms

AI-based Time Series Forecasting Algorithms | LG Display

📅 Mar 2020 ▶ Feb 2021

- Development of neural network models for OLED and equipment lifetime prediction using multivariate time series

RESEARCH & INDUSTRY EXPERIENCE

Exchange Research Student

in *Carnegie Mellon University, USA*

📅 Jan 2022 ▶ Jul 2022

- Participated in the Sogang-CMU Global AI Talent Program, including an intensive AI field training and on-site research activities.

Research Intern

in *ETRI (Electronics and Telecommunications Research Institute), Korea*

📅 Jul 2018 ▶ Aug 2018

- Developed custom embedded Linux systems using Yocto Project for ADAS in autonomous vehicles.

AWARDS AND HONORS

3rd Place Awarded at the 2nd Editage Early Career Researcher Awards 📅 2025

Best Paper Award Awarded by Samsung Electronics DS for Industry-Academia Collaboration 📅 2023

Gold Prize Awarded at the Samsung Display Industry-Academia Paper Competition 📅 2023

Top Graduate Student Award Awarded by the Sogang RICH Engineering Research Awards 📅 2023

Best Paper Award Awarded at the 2022 Qualcomm Innovation Award Korea 📅 2022

Encouragement Award Awarded at the 2021 Qualcomm Innovation Award Korea 📅 2021

SKILLS

Programming Language Python

Machine Learning Library PyTorch, OpenCV, Numpy, Pandas, Matplotlib etc.