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Education

Ph.D. Student, Statistics, Konkuk University, Seoul, Present.

M.S. Statistics, Konkuk University, Seoul, Feb 2022.

B.A. Statistics, Konkuk University, Seoul, Feb 2020.

Experiences

Research Engineer, Mustree, Seoul, 2022 - Present

Research Engineer, Deep Visions, Seoul, 2020 - 2021.

Publications

- [1] Hwang M.,†, Jeong Y., Kim S., Noh T., Jeong S., Jeong H. and **Lee Y.*** (2025) A Two-Stage Diffusion Pipeline for Consistent Front-Back Clothing Generation, *Quantitative Bio-Science*, *Corresponding author.
- [2] Kim J., **Lee Y.**, Yang S., Kim N. and Kim S. (2025) SoulBound Token Recovery Mechanism and the Application of a Customer-Centric Gaurdian System, *Journal of the Korea Institute of Information Security & Cryptology*.
- [3] Jeong Y., Noh T., **Lee Y.**, Lee S., Choi K., Jeong S. and Kim S. (2025) A Mobile LiDAR-Based Deep Learning Approach for Real-Time 3D Body Measurement, *Applied Sciences*.
- [4] Kim J., **Lee Y.**, Yang S. and Kim S. (2024) Implementation of SoulBound Token Using Economical and Efficient Decentralized File Storage Methods, *Journal of the Korea Institute of Information Security & Cryptology*.
- [5] Jeong H., Moon H., Jeong Y., Kwon H., Kim C., **Lee Y.**, Yang S. and Kim S. (2024) Automated Technology for Strawberry Size Measurement and Weight Prediction Using AI, *IEEE Access*.
- [6] Gwak H., Jeong Y., Kim C., **Lee Y.**, Yang S. and Kim S. (2023) A Multi-View Integrated Ensemble for the Background Discrimination of Semi-Supervised Semantic Segmentation, *Applied Sciences*.
- [7] Heo S., Jung S., Kwak H., Jeong Y., Yang S., **Lee Y.**, and Kim S. (2023) Dental Image Data Generation for Instance Segmentation using Generative Adversarial Networks, *Quantitative Bio-Science*.

- [8] Oh J., Ligan P., **Lee Y.**, Yang S. and Kim S. (2022) An Investment Model Based on a Head-And-Shoulder Pattern with Multiple Moving Average Technical Indicators for Future Markets, *Quantitative Bio-Science*.
- [9] **Lee Y.**, Oh J., Yang S. and Kim S. (2022) Integrated Analytic Methodology Using Visual Image and Meta-Data for Product Recommendation, *Quantitative Bio-Science*.
- [10] Kim S., Moon H., Oh J., **Lee Y.**, Kwon H. and Kim S. (2022) Automatic Measurements of Garment Sizes Using Computer Vision Deep Learning Models and Point Cloud Data, *Applied Sciences*.
- [11] Han J., Jo K., Lim W., **Lee Y.**, Ko K., Sim E., Cho J. and Kim S. (2020) Reinforcement Learning Guided by Double Replay Memory, *Journal of Sensors*.
- [12] Jung S., Yang S., Lee E., **Lee Y.**, Ko J., Lee S., Cho J., Lee J. and Kim S. (2020) Estimation of Particulate Levels Using Deep Dehazing Network and Temporal Prior, *Journal of Sensors*.

Patents

- [1] Kim S., **Lee Y.** and Kim J., "Method and Apparatus for Automatic Body Circumference Measurement Using 2D and 3D Data Fusion", No. 10-2024-0077839, June 2024, *Korean Intellectual Property Office*, Filled.

Research Experience

Graduate Student Researcher, Konkuk University, Department of Applied Statistics, Statistical Artificial Intelligence Lab, Seoul, Korea, Mar 2020 - present.

Research Engineer, Mustree, Seoul, Korea, Mar 2022 - present.

Research Engineer, Deep Visions, Seoul, Korea, Mar 2020 - Dec 2021.

- [1] Method for Developing an Image-based Mobile Fine Dust Measurement Device Using Raspberry Pi and Camera Modules.
- [2] Outlier Detection Method Based on Numerical Data Acquired by Gas Pipeline Inspection Robots.
- [3] Millimeter-level Accurate Object Measurement Method Using Mobile LiDAR Sensor-based Point Cloud Data.
- [4] Development of a Model and Management System for Monitoring Water Quality Changes in the Han River

References

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