WONSEO CHOI

Seoul, Republic of Korea
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https://wonseo-c.github.io/



EDUCATION

Hanyang University

Mar 2022 - Feb 2024

Master of Science in Electronic Engineering

- · Research Topic: AI for Network/Embedded Systems and Modeling/Simulation of Cyber-Physical Systems
- · Overall GPA: 4.44 / 4.5

Hanyang University

Mar 2017 - Feb 2022

- Bachelor of Science in Electric Engineering
- · Minor in Electronic Engineering
- · Overall GPA: 4.07 / 4.5 (Major GPA: 4.18 / 4.5)

RESERACH PROJECT

ΑI

- · WiFi AP Localization using Convolutional Neural Network (with KT)
- · Path-loss Prediction using Deep Neural Network
- · Embedded
- Modeling/Simulation of Cyber-Physical Systems, AI for Network/Embedded Systems
- · Path-loss Prediction using Deep Neural Network
- · Modeling/Simulation of Cyber-Physical Systems, AI for Network/Embedded Systems

PAPER

- I. **W. Choi** et al., "Enhanced Wi-Fi Access Point Positioning Using Hexagonal CNN With Mobile Data and Urban Information," in IEEE Internet of Things Journal, vol. 11, no. 20, pp. 33820-33832, 15 Oct.15, 2024.
- 2. Sung, S., **Choi, W.**, Kim, H., & Jung, J. I. (2023). Deep Learning-Based Path Loss Prediction for Fifth-Generation New Radio Vehicle Communications. IEEE Access.

- 3. Kim, T. M., **Choi, W.**, Choi, I. Y., Park, S. J., Yoon, K. H., & Chang, D. J. (2021). Semi-AI and Full-AI digitizer: the ways to digitalize visual field big data. Computer Methods and Programs in Biomedicine, 207, 106168.
- 4. Suh, S., Cheon, S., **Choi, W.**, Chung, Y. W., Cho, W. K., Paik, J. S., ..., & Lee, Y. O. (2022). Supervised segmentation with domain adaptation for small sampled orbital CT images. Journal of Computational Design and Engineering, 9(2), 783-792.

EXPERIENCE

LG Display

Mar 2024 - Current

Big Data Scientist/Engineer

Paju, Gyeonggi-do

· Improve yield through big data analyzing.

Catholic Univ. of Korea Yeouido ST.Mary's Hospital

Aug 2020 - Feb 2021

Research Intern

Seoul, Korea

- · Develop an automated system to extract test results from image-based result sheets using Big Data Processing techniques for AI applications
- · Conduct experiments and implemented a research paper focusing on domain adaptation through the application of Generative Adversarial Networks (GANs)

KIST Europe
Feb 2020 - Jul 2020
Intern
Saarbrücken, Germany

- · Develop an automated system to acquire experimental data, enabling the calculation of heart rate by analyzing variations in the size of heart images across different frames
- · Improve cell tracking performance by focusing on the enhancement of the U-Net layer, analyzing and optimizing the Localization component responsible for accurate cell tracking

TECHNICAL STRENGTHS

Computer Languages Python(with PyTorch, Tensorflow, Keras), R, MATLAB, Assembly

Java, C++, TypeScript

Developing Environments Mac, Windows, Linux (Ubuntu Server)

ONLINE-DEMO

Wonseo Choi, Yongoh Lee, "Attention-aware U-Net toward the interpretability of single cell segmentation", KCCV 2020, Republic of Korea (Online) - demo video

OTHER ACTIVITIES

겨자씨 키움센터 Feb 2021 - Aug 2021

Founding Activities

· Obligatory recording paper Digitization Artificial intelligence learning model (module) development

Visiting U.C. Berkeley

Jun 2022 - Jul 2022 , Feb 2023

· Design and develop the implementation of Lingua-Franca(opensource project) mutations

TEACHING ASSISTANT

Probability & Statistics

Sep 2023-Dec 2023

· Generating Random Variables based on Probability distributions using MATLAB

Computer Network Sep 2023-Dec 2023

· Basic Algorithm for Computer Network using MATLAB

AWARDS

1. Academic Excellence Award in the Hanyang Univ. graduation ceremony

Feb 2022

2. Encouragement Award in the "HY-Running Pace Maker" Program

Jan 2022