JooYoung Kim

Research Engineer, Seoul National University Bundang Hospital
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Last updated: May 2023

INTERESTS sementic segmentation, interactive segmentation

EXPERIENCE

Research Engineer, Seoul National University Bundang Hospital Aug 2019 -
• Opthalmology Lab of Data Science, SNUBH

EDUCATION

M.S., EE, Soonchunhyang University Aug 2017 - Aug 2019
• Thesis: Regression of solution concentration using convolutional neural nets on portable vis/nir spectrometer data
• Advisor: Soochahn Lee

B.S., EE, Soonchunhyang University Mar 2012 - Aug 2017
• B.S. in Electrical Engineering

PROJECTS & GRANTS

• **Robust Finding filamentry vessel via Interactive Segmentation**
Seoul National University Bundang Hospital, South Korea
(Researcher, Jan 2023 - Present)

• **Segmentation Labeling Tool via Computer Vision and Deep learning**
Seoul National University Bundang Hospital, South Korea
(Researcher, Mar 2022 - Dec 2022)

• **Finding artery and vein classification via Robust Vessel segmentation**
Seoul National University Bundang Hospital, South Korea
(Researcher, Dec 2021 - Jun 2022)

• **Generating Graph Vessel Structure via Vessel Centerline Generation**
Seoul National University Bundang Hospital, South Korea
(Researcher, Nov 2021 - Mar 2022)

• **Constructing Retinal Fundus Photomontages via Fully Leveraging Deep Learning Methods**
Seoul National University Bundang Hospital, South Korea
(Researcher, Jun 2020 - Dec 2020)

• **Medical Report Recognition via OCR**
Seoul National University Bundang Hospital, South Korea

(Researcher, Dec 2019 - Apr 2020)

PUBLICATIONS

- Go, Sojung, **Jooyoung Kim**, Kyoung Jin Noh, Sang Jun Park, Soochahn Lee. "Combined Deep Learning of Fundus Images and Fluorescein Angiography for Retinal Artery/Vein Classification." *IEEE Access, 2022*
- **Jooyoung Kim**, Sojung Go,Kyoung Jin Noh, Sang Jun Park, Soochahn Lee. "Fully Leveraging Deep Learning Methods for Constructing Retinal Fundus Photomontages." *Applied Sciences, 2021*
- Yongseok Mun, **Jooyoung Kim**, Kyoung Jin Noh, Soochahn Lee, Seok Kim, Soyoung Yi, Kyu Hyung Park, Sooyoung Yoo, Dong Jin Chang, Sang Jun Park . "An innovative strategy for standardized, structured, and interoperable results in ophthalmic examinations." *BMC Medical Informatics and Decision Making, 2021*

SCHOLARSHIP

Superior Academic Performance Scholarship, Soonchunhyang University 2012, 2015

SKILLS

Programming Languages: **Python**, C++

Human Languages: **English** - Upper-Intermediate , **Japanese** - Upper-Intermediate, **Korean** - native