Junyoung Hong

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EDUCATION

Yong In University Mar 2022 - Present

B.S. in School of Artificial Intelligence
GPA: 4.14/4.5 (Major GPA: 4.34/4.5)

RESEARCH INTERESTS

3D Computer Vision
– Neural Rendering for 3D Human Avatar (NeRF, Gaussian Splatting)

Image Segmentation
– Human Parsing

EXPERIENCE

Undergraduate Intern / Lab Manager Mar 2022 - Present / Jan 2024 - Present

Machine Intelligence Lab. supervised by Prof. Kyungjae Lee, Yong In University

Researcher / Project Leader Sep 2022 - Present

Development of Instance Segmentation Method for Mobile Devices
Development of Real·Virtual Environmental Analysis Based Adaptive Interaction Technology

PROJECTS

Development of Instance Segmentation Method for Mobile Devices Sep 2022 - Mar 2023
Electronics and Telecommunications Research Institute (**ETRI**)
Researcher

Development of Real·Virtual Environmental Analysis Based Adaptive Interaction Technology Mar 2023 - Present
Electronics and Telecommunications Research Institute (**ETRI**)
Project Leader

PUBLICATIONS

Generalized On-Device AI Framework for Semantic Segmentation
Junyoung Hong, Kyungjae Lee
Jounal of the Korea Institute of Electronic Communication Sciences (**KIECS**), **2024**

Patch Regularization in Visual State Space Model
Junyoung Hong, Hyeri Yang, Ye Ju Kim, Shinwoong Kim, Kyungjae Lee
International Technical Conference on Circuits/Systems, Computers and Communications (**ITC-CSCC**), **2024 (Oral Presentation)**

A Screen of Slide Detection Method Using Deep Learning-Based Segmentation and Hough Transform
Junyoung Hong*, Sunguk Jung*, Yongwoo Lee, Hyeonbeom Heo, Hyeri Yang, Hayeon Kim, Kyungjae Lee (* equally contributed)
International Technical Conference on Circuits/Systems, Computers and Communications (**ITC-CSCC**), **2022 (Oral Presentation)**

Selective Style Gaussian: Enabling Localized Style Transfer in 3D Scenes
Hyeri Yang, Hyeonbeom Heo, **Junyoung Hong**, Ye Ju Kim, Kyungjae Lee
International Technical Conference on Circuits/Systems, Computers and Communications (**ITC-CSCC**), **2024 (Oral Presentation)**

Local Context Aggregation for Semantic Segmentation: A Novel PSPNet Approach

Haerim Kim, Ye Ju Kim, **Junyoung Hong**, Hyeri Yang, Euna Shim, Kyungjae Lee

International Technical Conference on Circuits/Systems, Computers and Communications (**ITC-CSCC**), **2024 (Oral Presentation)**

Light Awareness Network for Shadow Detection

Ye Ju Kim, **Junyoung Hong**, Hyeonbeom Heo, Hyeri Yang, Soyeon Kim, Kyungjae Lee

International Conference of Next Generation Convergence Technology (**ICNGCT**), **2023 (Oral Presentation)**

Paper in Progress

D2FP: Learning Implicit Prior for Human Parsing

Junyoung Hong, Hyeri Yang, Ye Ju Kim, Haerim Kim, Shinwoong Kim, Euna Shim, Kyungjae Lee

Submitted to WACV 2025

Skills

Programming Language	C/C++, Python
Deep Learning Framework	PyTorch, Detectron2
Image Processing Library	OpenCV
Windows Desktop Application Development	Win32 API, Active Template Library (ATL)
Development Tools	Git, Docker

Language

Korean (Native), English (Advanced)