Joonkyu Park

CONTACT INFORMATION

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RESEARCH INTERESTS

I am interested in deep learning and computer vision problems, including high-level and low-level tasks. Currently, I am studying low-level vision tasks, especially visual quality enhancement and generative models. My recent research topics include 3D reconstruction and video deblurring.

EDUCATION

March 2021 - February 2027 (anticipated) — Seoul National University
Integrated Ph.D. program in School of Electrical and Computer Engineering
Advisor: Kyoung Mu Lee

March 2015 - February 2021 — Seoul National University
B.S. in School of Electrical and Computer Engineering

PUBLICATIONS

- **Joonkyu Park**, Seungjun Nah, and Kyoung Mu Lee, "Recurrence-in-Recurrence Networks for Video Deblurring," BMVC 2021. [pdf]

- Hongsuk Choi, Gyeongsik Moon, **Joonkyu Park**, and Kyoung Mu Lee, "Learning to Estimate Robust 3D Human Mesh from In-the-Wild Crowded Scenes," CVPR 2022. [pdf]

- **Joonkyu Park***, Yeonguk Oh*, Gyeongsik Moon*, Hongsuk Choi, and Kyoung Mu Lee, "HandOccNet: Occlusion-Robust 3D Hand Mesh Estimation Network," CVPR 2022. [pdf]

- **Joonkyu Park**, Seungjun Nah, and Kyoung Mu Lee, "Pay Attention to Hidden States for Video Deblurring: Ping-Pong Recurrent Neural Networks and Selective Non-Local Attention", arXiv:2203.16063, 2022. [pdf]

RESEARCH IN PROGRESS

I am currently preparing a new paper, Guided Image Inpainting via Selective Contextual Attention. Different from the previous works, in our work, contextual information is selectively utilized for corresponding regions, and we modify the training framework to fit the purpose of inpainting.

RESEARCH PROJECT

- **Introduction to Electronic Circuits and Laboratory, SNU** (2016.4 - 2016.6)
  Fire Automatic Estimation Fire Extinguisher

- **Digital Design and Manufacturing for Product Development, SNU** (2019.4 - 2019.6)
  Intelligent Air Purifier Design and Manufacturing

- **Electrical Engineering Design Project, SNU** (2020.3 - 2019.6)
  AI Security: AE(Adversarial Examples) Generation with GAN

- **9th Creative Design Festival, SNU** (2020.4 - 2020.07)
  Untact AR Makeup [Script]

- **Introduction to Deep Learning, SNU** (2020.9 - 2020.11)
  Noise Canceling based on Generative Adversarial Approach

- **Samusung Research** (2021.03 - 2021.12)
  Domain Adaptation for Oven Recipes

- **SNU-NAVER AI center** (2021.09 - Present)
  Learning Multi-Scale Image Representation via Self-Supervised Warping

SKILLS

Python, C/C++, MATLAB, Tensorflow, PyTorch, LaTeX

REFERENCES

Advisor Prof. Kyoung Mu Lee
Professor at Seoul National University
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