

Namhyuk Ahn

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RESEARCH INTEREST

- Image restoration and enhancement
- Image generation including synthesis, translation, or manipulation

WORK EXPERIENCE

- Researcher**, Webtoon AI, NAVER WEBTOON Corp. *Aug. 2021 - Present*
· W AI Creation and AI Research Lab
- Visiting Researcher**, Clova AI Research, NAVER Corp. *Sep. 2019 - Oct. 2020*
· Mentor: Dr. Jaejun Yoo, Dr. Youngjung Uh and Yunjey Choi
- Intern**, Clova AI, NAVER Corp. *June 2018 - Aug. 2018*
· Mentor: Kwangjin Oh

EDUCATION

- Ajou University** *Mar. 2016 - Aug. 2021*
Ph.D. Student in the Department of Artificial Intelligence
Advisor: Prof. Kyung-Ah Sohn
Thesis: Toward an Efficient Deep Image Restoration Method
- Ajou University** *Mar. 2012 - Feb. 2016*
Bachelor of Media in Digital Media

PUBLICATIONS

(* indicates equal contribution)

- [11] Seungkwon Kim, Chaeheon Gwak, Dohyun Kim, Kwangho Lee, Jihye Back, **Namhyuk Ahn***, and Daesik Kim*. Cross-Domain Style Mixing for Face Cartoonization. **AICC workshop @ CVPR 2022**.
- [10] Wooksu Shin, **Namhyuk Ahn**, Jeong-Hyeon Moon, and Kyung-Ah Sohn. Exploiting Distortion Information for Multi-degraded Image Restoration. **NTIRE workshop @ CVPR 2022**.
- [9] **Namhyuk Ahn**, Byungkon Kang, and Kyung-Ah Sohn. Efficient Deep Neural Network for Photo-realistic Image Super-Resolution. **Pattern Recognition**, 2022 (IF=**7.740**).
- [8] Jaejun Yoo*, **Namhyuk Ahn***, and Kyung-Ah Sohn. Data Augmentation for Low-Level Vision: CutBlur and Mixture-of-Augmentation. Submitted to **TPAMI**, 2021.
- [7] Junekyu Park, Jeong-Hyeon Moon, **Namhyuk Ahn**, and Kyung-Ah Sohn. What is Wrong with One-Class Anomaly Detection?. **AISecure workshop @ ICLR 2021**.
- [6] Sijin Kim*, **Namhyuk Ahn***, and Kyung-Ah Sohn. Restoring Spatially-Heterogeneous Distortions using Mixture of Experts Network. **ACCV 2020**.
- [5] Jaejun Yoo*, **Namhyuk Ahn***, and Kyung-Ah Sohn. Rethinking Data Augmentation for Image Super-resolution: A Comprehensive Analysis and a New Strategy. **CVPR 2020**.

- [4] **Namhyuk Ahn***, Jaejun Yoo*, and Kyung-Ah Sohn. SimUSR: A Simple but Strong Baseline for Unsupervised Image Super-resolution. **NTIRE workshop @ CVPR 2020**.
- [3] **Namhyuk Ahn**, Byungkon Kang, and Kyung-Ah Sohn. Fast, Accurate, and Lightweight Super-Resolution with Cascading Residual Network. **ECCV 2018**.
- [2] **Namhyuk Ahn**, Byungkon Kang, and Kyung-Ah Sohn. Image Super-resolution via Progressive Cascading Residual Network. **NTIRE workshop @ CVPR 2018**.
- [1] **Namhyuk Ahn**, Byungkon Kang, and Kyung-Ah Sohn. Image Distortion Detection using Convolutional Neural Network. **ACPR 2017**.

AWARDS

- Honorable Mention Award**, NTIRE 2018 Challenge *June 2018*
· Single image super-resolution challenge (track 1) on NTIRE workshop @ CVPR 2018.

TEACHING EXPERIENCE

- Lecture Instructor**, Fastcampus *Aug. 2017*
· Lecture material: https://github.com/nmhkahn/deep_learning_tutorial

PROFESSIONAL SERVICE

- Reviewer**
· Journal: TPAMI, TIP, TMM, TCSVT, Signal Processing: Image Communication
· workshops: NTIRE (@ CVPR 2022)