Namhyuk Ahn

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WORK EXPERIENCE

Researcher, Webtoon AI, NAVER WEBTOON Corp.	Aug. 2021 - Present
Visiting Researcher, Clova AI Research, NAVER Corp.	Sep. 2019 - Oct. 2020
Intern, Clova AI, NAVER Corp.	June 2018 - Aug. 2018

EDUCATION

Ajou University

Mar. 2016 - Aug. 2021

Ph.D. in 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

(*: equal contribution)

(C: peer-reviewed conference, J: A: peer-reviewed journal, W: peer-reviewed workshop, P: preprint & submitted)

- [P5] Sungnyun Kim, Junsoo Lee, Kibeom Hong, Daesik Kim, **Namhyuk Ahn**. DiffBlender: Scalable and Composable Multimodal Text-to-Image Diffusion Models. *preprint* arXiv:2305.15194
- [P4] Jihye Back, **Namhyuk Ahn**, Jangho Kim. Magnitude Attention-based Dynamic Pruning. preprint arXiv:2306.05056
- [P3] Kibeom Hong, Seogkyu Jeon, Junsoo Lee, **Namhyuk Ahn**, Kunhee Kim, Daesik Kim, Youngjung Uh, Hyeran Byun. AesPA-Net: Aesthetic Pattern-Aware Style Transfer Networks. Submitted
- [P2] Jeong-Hyeon Moon*, **Namhyuk Ahn***, Kyung-Ah Sohn. Decomposing Texture and Semantics for Out-of-distribution Detection. Submitted to Expert Systems with Applications (**ESWA**)
- [P1] Namhyuk Ahn, Jaejun Yoo, Kyung-Ah Sohn. Data Augmentation for Low-Level Vision: CutBlur and Mixture-of-Augmentation. Submitted to International Journal of Computer Vision (IJCV)
- [J1] Namhyuk Ahn, Byungkon Kang, Kyung-Ah Sohn. Efficient Deep Neural Network for Photo-realistic Image Super-Resolution. Pattern Recognition (PR), 2022 (IF=8.518)
- [C6] Namhyuk Ahn, Patrick Kwon, Jihye Back, Kibeom Hong, Seungkwon Kim. Interactive Cartoonization with Controllable Perceptual Factors. CVPR 2023
- [C5] Jihye Back*, Seungkwon Kim*, **Namhyuk Ahn**. WebtoonMe: A Data-Centric Approach for Full-Body Portrait Stylization. **SIGGRAPH Asia** 2022 (Technical Communications)
- [C4] Sijin Kim*, **Namhyuk Ahn***, Kyung-Ah Sohn. Restoring Spatially-Heterogeneous Distortions using Mixture of Experts Network. **ACCV** 2020

- [C3] Jaejun Yoo*, Namhyuk Ahn*, Kyung-Ah Sohn. Rethinking Data Augmentation for Image Super-resolution: A Comprehensive Analysis and a New Strategy. CVPR 2020
- [C2] Namhyuk Ahn, Byungkon Kang, Kyung-Ah Sohn. Fast, Accurate, and Lightweight Super-Resolution with Cascading Residual Network. ECCV 2018
- [C1] Namhyuk Ahn, Byungkon Kang, Kyung-Ah Sohn. Image Distortion Detection using Convolutional Neural Network. ACPR 2017
- [W6] Kwangho Lee, Patrick Kwon, Myung Ki Lee, **Namhyuk Ahn**, Junsoo Lee. LPMM: Intuitive Pose Control for Neural Talking-Head Model via Landmark-Parameter Morphable Model. **CVPRW** 2023
- [W5] Seungkwon Kim, Chaeheon Gwak, Dohyun Kim, Kwangho Lee, Jihye Back, **Namhyuk Ahn**, Daesik Kim. Cross-Domain Style Mixing for Face Cartoonization. **CVPRW** 2022
- [W4] Wooksu Shin, **Namhyuk Ahn**, Jeong-Hyeon Moon, Kyung-Ah Sohn. Exploiting Distortion Information for Multi-degraded Image Restoration. **CVPRW** 2022
- [W3] Junekyu Park, Jeong-Hyeon Moon, **Namhyuk Ahn**, Kyung-Ah Sohn. What is Wrong with One-Class Anomaly Detection? **ICLRW** 2021
- [W2] Namhyuk Ahn*, Jaejun Yoo*, Kyung-Ah Sohn. SimUSR: A Simple but Strong Baseline for Unsupervised Image Super-resolution. CVPRW 2020
- [W1] **Namhyuk Ahn**, Byungkon Kang, Kyung-Ah Sohn. Image Super-resolution via Progressive Cascading Residual Network. **CVPRW** 2018

PROFESSIONAL SERVICE

Reviewer

- · Conference: CVPR (2023), ICCV (2023)
- · Journal: TPAMI, TIP, TMM, TCSVT, SPIC
- · Workshops: NTIRE (@ CVPR 2022)

Guest Editor

· Mathematical Biosciences and Engineering

MISCELLANEOUS

Press

- ・"日本のマンガを脅かす韓「ウェブトゥン」AI等の活用で急追", Korea world times Dec. 2022
- · "내 얼굴이 웹툰 캐릭터로 변했다", Digital daily Jan. 2023
- · "미국·유럽·일본도 '감탄'...웹툰 AI 시대 열어야죠", Tech M Feb. 2023

Teaching

· Lecture Instructor, Fastcampus

Aug. 2017

Awards

· Honorable Mention Award, SR challenge on NTIRE workshop @ CVPR 2018 June 2018

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