Jaesung Rim

Ph.D. student
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EDUCATION

Sep. 2020 ~ Present	**Pohang University of Science and Technology** Graduate School of Artificial Intelligence *Advisor: Sunghyun Cho* *Ph.D. Student* GPA: 3.66 / 4.3	Pohang, Korea
Sep. 2018 ~ Aug. 2020	**Daegu Gyeongbuk Institute of Science and Technology** Department of Electrical Engineering & Computer Science Thesis: Real-World Blur Dataset for Learning and Benchmarking Deblurring Algorithms *Advisor: Sunghyun Cho* *M.S. in Information and Communication Engineering* GPA: 3.8 / 4.3	Daegu, Korea
Mar. 2011 ~ Aug. 2017	**Kwangwoon University** Department of Industrial Psychology *B.S. in Industrial Psychology* GPA: 3.9 / 4.5	Seoul, Korea

RESEARCH INTERESTS

- Computer vision
- Computational photography
- Image restoration
- Deblurring

PUBLICATIONS

1. **Jaesung Rim**, Junyong Lee, Heemin Yang, Sunghyun Cho, "Deep Hybrid Camera Deblurring", Submitted
2. Dongwoo Lee, Jeongtaek Oh, **Jaesung Rim**, Sunghyun Cho, Kyoung Mu Lee, "ExBluRF: Efficient Radiance Fields for Extreme Motion Blurred Images", ICCV 2023
3. Sohyun Lee*, **Jaesung Rim***, Boseung Jeong, Geonu Kim, ByungJu Woo, Haechan Lee, Sunghyun Cho, Suha Kwak, "Human Pose Estimation in Extremely Low-Light Conditions", CVPR 2023

4. **Jaesung Rim**, Geonung Kim, Jungeon Kim, Junyong Lee, Seungyong Lee, Sunghyun Cho, "Realistic Blur Synthesis for Learning Image Deblurring", ECCV 2022
5. Junyong Lee, Hyeongseok Son, **Jaesung Rim**, Sunghyun Cho, Seungyong Lee, "Iterative Filter Adaptive Network for Single Image Defocus Deblurring.", CVPR 2021
6. **Jaesung Rim**, Haeyun Lee, Jucheol Won, Sunghyun Cho, "Real-World Blur Dataset for Learning and Benchmarking Deblurring Algorithms.", ECCV 2020

PUBLICATIONS (DOMESTIC)

1. **Jaesung Rim**, Geonung Kim, Jungeon Kim, Junyong Lee, Seungyong Lee, Sunghyun Cho, "Realistic Blur Synthesis for Learning Image Deblurring", KCCV 2023
2. **Jaesung Rim**, Sunghyun Cho, "Per-pixel Blur Kernel Estimation Network", IPIU 2021
3. Kiyeon Kim, **Jaesung Rim**, Shunghyun Cho, "Light-weight Image Restoration Network for Image Recognition", KCC 2021
4. **Jaesung Rim**, Haeyun Lee, Jucheol Won, Sunghyun Cho, "Real-World Blur Dataset for Learning and Benchmarking Deblurring Algorithm", KCGS 2020

PATENTS

1. Sanghyun Kim, Minjung Lee, Woohyeok Kim, Deunsol Jung, **Jaesung Rim**, Manjin Kim, Sunghyun Cho, Minsu Cho, "Base Frame Selection for Burst Image Enhancement on Multiple Exposure-Time Images", (KR, filing for a patent)
2. Sohyun Lee, **Jaesung Rim**, Boseung Jeong, Geonu Kim, ByungJu Woo, Haechan Lee, Sunghyun Cho, Suha Kwak, "Method and Apparatus for Learning Human Pose Estimation In Low-light Conditions", 10-2023-0154857 (KR, issued), 18/364,823 (US, issued)

PROJECTS

- Development of Neural Camera ISPs for Multi-Degradation Restoration and Perceptual Image Enhancement, MSIT, Korea (Mar. 2023 ~ Present)
- eXVision: Visual Recognition in Extreme Conditions, Samsung Research Funding & Incubation Center for Future Technology, Korea (May. 2018 ~ Present)
- Extreme Exploitation of Dark Data Research Center, MSIT, Korea (Aug. 2018 ~ Present)
- Real and realistic-looking synthetic data generation for low-light image enhancement and recognition, MSIT, Korea (Mar. 2020 ~ Feb. 2023)

TEACHING EXPERIENCE

- Teaching assistance for Objective-Oriented Programming, Mar. 2023 ~ Jun. 2023
- Teaching assistance for Computer Vision (Hyundai AI Academy), Dec. 2020 ~ Dec. 2020
- Teaching assistance for Programming Practice, Mar. 2020 ~ Jun. 2020

TALK

- Programming Practice of the State of the Arts, KCCV 2023, Tutorial