Younghyun Jo

CONTACT
INFORMATION

Computational Intelligence and Photography Lab
Dept. of Computer Science
Yonsei University
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RESEARCH
INTERESTS

Computational Photography / Computer Vision / Machine Learning
Image/Video super-resolution, video generation/synthesis, and deep learning for computer vision.

EDUCATION

Yonsei University, Seoul, Korea

    M.S./Ph.D. Student, Computer Science   **Sep 2015 - Present**
- Advisor: Seon Joo Kim
- GPA: 4.17/4.3

Yonsei University, Seoul, Korea

    B.S., Computer Science and Engineering   **Mar 2009 - Aug 2015**
- GPA: 3.72/4.3

WORK
EXPERIENCE

Yonsei University, Seoul, Korea   **Sep 2015 - Current**
(Research Assistant)
- Deep learning based image/video super-resolution.   Sep 2016 - Current
- Light field image analysis for super-resolution and depth estimation.   Sep 2015 - Aug 2016

Mintech, Seoul, Korea   **Jan 2013 - Feb 2013**
(Android Developer Intern)

TEACHING
EXPERIENCE

Samsung Electronics, Gyeonggi, Korea
(Teaching Assistant)
- Deep Learning (20 hours of lecture and lab)   **Aug 2017**

Yonsei University, Seoul, Korea
(Teaching Assistant)
- Computer Programming (Undergrad).   **Spring 2016**

PUBLICATIONS

Younghyun Jo, Sejong Yang, Seon Joo Kim, "SRFlow-DA: Super-Resolution Using Normalizing Flow with Deep Convolutional Block", In Proc. of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (**CVPR Workshops**) 2021.

Younghyun Jo, Seoung Wug Oh, Peter Vajda, Seon Joo Kim, "Tackling the Ill-Posedness of Super-Resolution through Adaptive Target Generation", In Proc. of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021.

Younghyun Jo, Seon Joo Kim, "Practical Single-Image Super-Resolution Using Look-Up Table", In Proc. of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021.

Jaeyeon Kang, **Younghyun Jo**, Seoung Wug Oh, Peter Vajda, Seon Joo Kim, "Deep Space-Time Video Upsampling Networks", In Proc. of the European Conference on Computer Vision (**ECCV**) 2020.

Younghyun Jo, Sejong Yang, Seon Joo Kim, "Investigating loss functions for extreme super-resolution", In Proc. of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (**CVPR Workshops**) 2020.

Younghyun Jo, Seoung Wug Oh, Jaeyeon Kang, Seon Joo Kim, "Deep Video Super-Resolution Network Using Dynamic Upsampling Filters Without Explicit Motion Compensation", In Proc. of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018.

PATENT	**Pending**

- Apparatus for training super-resolution network and method of the same (**Korea**).
- Apparatus for super-resolution image processing using look-up table and method of the same (**Korea**).

ACADEMIC SERVICE

Conference Reviewer

• IEEE/CVF International Conference on Computer Vision (ICCV)	**2021**
• IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)	**2021**
• Asian Conference on Computer Vision (ACCV)	**2018**

Journal Reviewer
- International Journal of Computer Vision (IJCV)
- Journal of Electronic Imaging (JEI)

HONORS & SCHOLARSHIPS

New Trends in Image Restoration and Enhancement (NTIRE) Workshop, in conjunction with CVPR

• Runner-Up Award, NTIRE 2021 Challenge on Learning the Super-Resolution Space.	**2021**
• 2nd Place Award, NTIRE 2020 Challenge on Perceptual Extreme Super-Resolution.	**2020**

Naver Corporation, Gyeonggi, Korea

• Naver Ph.D. Fellowship.	**2018**

Samsung Electronics, Gyeonggi, Korea

• Bronze prize, 24th Samsung Humantech Paper Award.	**2018**

Yonsei University, Seoul, Korea

• Graduate Scholarship for Excellent Students.	**Sep 2015 - Aug 2017**

SKILLS

Programming Languages
- Python, Matlab, C/C++, Java

Tools
- Pytorch, Tensorflow, OpenCV, Android