Myungsub Choi

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https://myungsub.github.io

INTERESTS Video analysis, frame interpolation, test-time adaptation methods, meta-learning

EDUCATION

Seoul National University (SNU) Mar 2013 – Present
- Integrated Master & Ph.D program in Electrical and Computer Engineering
- Advisor: Kyoung Mu Lee

Seoul National University (SNU) Mar 2009 – Feb 2013
- B.E. in Electrical and Computer Engineering
- Cumulative GPA: 3.48 / 4.30

PUBLICATIONS

- Suyoung Lee*, **Myungsub Choi***, and Kyoung Mu Lee, "DynaVSR: Dynamic Adaptive Blind Video Super-Resolution," *IEEE Winter Conference on Applications of Computer Vision* (**WACV**), 2021.
- Sungyong Baik, **Myungsub Choi**, Janghoon Choi, Heewon Kim, and Kyoung Mu Lee, "Meta-Learning with Adaptive Hyperparameters," *Advances in Neural Information Processing Systems* (**NeurIPS**), 2020.
- **Myungsub Choi**, Janghoon Choi, Sungyong Baik, Tae Hyun Kim, and Kyoung Mu Lee, "Scene-Adaptive Video Frame Interpolation via Meta-Learning," *IEEE Conference on Computer Vision and Pattern Recognition* (**CVPR**), 2020.
- **Myungsub Choi**, Heewon Kim, Bohyung Han, Ning Xu, and Kyoung Mu Lee, "Channel Attention Is All You Need for Video Frame Interpolation," *Association for the Advancement of Artificial Intelligence* (**AAAI**), 2020
- Heewon Kim, **Myungsub Choi**, Bee Lim, and Kyoung Mu Lee, "Task-Aware Image Downscaling," *European Conference on Computer Vision* (**ECCV**), 2018

EXPERIENCE

Research Intern
- Snap Inc., Venice, California, USA (Jun 2018 – Aug 2018)

Teaching Assistant
- Graduation project, CVLab, SNU (Spring 2018, Spring 2017, Fall 2015)
- Advanced Topics in Computer Vision, SNU (Fall 2016)
- Signals & Systems, SNU (Spring 2014)

PROJECTS

- **Joint Medical Image & Reports Analysis with Deep Learning**
  NRF (National Research Foundation), South Korea
  (Mar 2017 - Feb 2018)
- **Small Object Detection for Road Scene Analysis**
  SIC Center, LG Electronics, South Korea
  (April 2017 - Dec 2017)
- **DNN based Traffic Sign Detection and Recognition**
  SIC Center, LG Electronics, South Korea
  (Feb 2016 - Dec 2016)
- **Semantic Segmentation for Road Scene Analysis with Deep Learning**

SAIT, Samsung Electronics, South Korea
(May 2015 - April 2016)

- **Semantic Segmentation for Efficient Scene Analysis**
  DMC R&D Center, Samsung Electronics, South Korea
  (May 2014 - Dec 2014)

SIDE PROJECTS

- **Awesome-RNN** (★ 5000+)
  A curated list of resources for studying RNNs (until $\sim$ 2016)
  - Main Contributor
- **Awesome-Deep-Vision** (★ 9000+)
  A curated list of deep learning resources for computer vision (until $\sim$ 2016)
  - Contributor

SCHOLARSHIP National Scholarship for Science & Engineering, Korea Student Aid Foundation
2009 - 2012

SKILLS

Programming Languages: **Python**, MATLAB, Lua, C++

Human Languages: **English** - fluent, **Korean** - native

REFERENCES

Kyoung Mu Lee
Professor
Department of Electrical and Computer Engineering
Seoul National University
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- Academic advisor

Bohyung Han
Associate Professor
Department of Electrical and Computer Engineering
Seoul National University
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- Mentor