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Seonghyeon Nam

Ph.D., Computer Science

Research Interests

Computer Vision, Machine Learning
computational photography, deep generative models, learning with minimal supervision

Experience

York University, Toronto, Canada
Postdoctoral Fellow *Dec' 20 - Present*
- Superviser: Prof. Michael S. Brown

Snap Inc., Los Angeles, United States
Research Intern *May' 18 - Aug' 18*
- Advisor: Dr. Chongyang Ma
- Worked on the problem of synthesizing time-lapse videos from a single image.
- Developed a deep generative model for hallucinating outdoor illumination without reference.

Yonsei University, Seoul, South Korea
Research Assistant *Mar' 14 - Aug' 20*
- Advisor: Prof. Seon Joo Kim

Education

Yonsei University, Seoul, Republic of Korea
Ph.D., Computer Science, *Mar' 14 - Aug' 20*
Advisor: Prof. Seon Joo Kim
GPA: 4.10/4.3

Yonsei University, Seoul, Republic of Korea
B.S., Computer Science, *Mar' 09 - Jeb' 14*
GPA: 3.69/4.3

Publications

S. Jeon, **S. Nam**, S. W. Oh, and S. J. Kim. Cross-Identity Motion Transfer for Arbitrary Objects through Pose-Attentive Video Reassembling. In *Proceedings of the European Conference on Computer Vision* (**ECCV**), 2020.

Y. Kim, **S. Nam**, I. Cho, and S. J. Kim. Unsupervised Keypoint Learning for Guiding Class-Conditional Video Prediction. In *Advances in Neural Information Processing Systems* (**NeurIPS**), 2019.

S. Nam, C. Ma, M. Chai, W. Brendel, N. Xu, and S. J. Kim. End-to-End Time-Lapse Video Synthesis from a Single Outdoor Image. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (**CVPR**), 2019.

S. Nam, Y. Kim, and S. J. Kim. Text-Adaptive Generative Adversarial Networks: Manipulating Images with Natural Language. In *Advances in Neural Information Processing Systems* (**NeurIPS**), 2018 (**Spotlight**).

S. Nam and S. J. Kim. Modelling the Scene Dependent Imaging in Cameras with a Deep Neural Network. In *Proceedings of the IEEE International Conference on Computer Vision* (**ICCV**), 2017.

S. Nam*[1], Y. Hwang*, Y. Matsushita, and S. J. Kim. A Holistic Approach to Cross-Channel Image Noise Modeling and its Application to Image Denoising. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (**CVPR**), 2016 (**Spotlight**).

Patent

Application
Method and Apparatus for Generating Video Based on Keypoints. **Korea Patent No. 10-2019-0172877**
Method for Enhancing Motion Transfer using Multiple Sources and Cycle Training **Korea Patent No. 10-2019-0175557**
Apparatus and method for generating manipulated image based on natural language and system using the same. **Korea Patent No. 10-2019-0003634**
Method and apparatus for image adjustment based on semantics-aware. **Korea Patent No. 10-2019-0003662**

Academic Service

Conference Reviewer

IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**)	*2018, 2019, 2020*
IEEE International Conference on Computer Vision (**ICCV**)	*2019*
European Conference on Computer Vision (**ECCV**)	*2020*
Advances in Neural Information Processing Systems (**NeurIPS**)	*2020*
International Conference on Learning Representations (**ICLR**)	*2021*
AAAI Conference on Artificial Intelligence (**AAAI**)	*2020*
Asian Conference on Computer Vision (**ACCV**)	*2018*
Winter Conference on Computer Vision (**WACV**)	*2017, 2018*

Journal Reviewer
IEEE Transactions on Image Processing (**TIP**)
Computer Vision and Image Understanding (**CVIU**)

Talks

Doctoral Colloquium, Korean Conference on Computer Vision (**KCCV**)	*2019*
Spotlight, Conference on Neural Information Processing Systems (**NeurIPS**)	*2018*
Tech Talk, NAVER Corp.	*2017, 2018*
Spotlight, IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**)	*2016*

Honors & Awards

NAVER Fellowship, NAVER Corp.	*2017*
Excellence Award, Dept. of Computer Science, Yonsei University	*2016*
Bronze Prize, 22nd Samsung HumanTech Paper Award	*2016*
Global Ph.D. Fellowship, National Research Foundation of Korea (NRF)	*2015 - 2019*

Skills

Languages
Python, **C/C++**, **Matlab**, Java, C#, HTML, PHP

Deep Learning Libraries
PyTorch, TensorFlow, Caffe, Keras

ETC
OpenCV, Android SDK

[1] Equal contribution