SONG PARK

🎓 Google Scholar   ⓖ Github

🏠 https://8uos.github.io   ✉ song.park@navercorp.com

RESEARCH INTERESTS

I am interested in interpreting and understanding visual concepts with multiple view points (e.g., mood, emotion, style, texture) to extract better visual representations for real-world downstream tasks.
To be specific, I have focused on the following research areas:

· **Representation Learning**
· **Style Transfer and Image to Image Translation**

EDUCATION

M.S. and **Ph.D.** in Integrated Technology   Mar 2016 - Feb 2022
Advisor: Prof. Hyunjung Shim
Yonsei University

B.S. in Integrated Technology   Mar 2013 - Feb 2016
Yonsei University

PUBLICATIONS

* indicates equal contribution.

1. Sanghyuk Chun, **Song Park**, "*StyleAugment: Learning Texture De-biased Representations by Style Augmentation without Pre-defined Textures*", arXiv preprint arXiv:2108.10549.

2. **Song Park**, Sanghyuk Chun, Junbum Cha, Bado Lee, Hyunjung Shim, "*Multiple Heads are Better than One: Few-shot Font Generation with Multiple Localized Experts*", International Conference on Computer Vision (**ICCV**), 2021.
https://github.com/clovaai/mxfont

3. **Song Park***, Sanghyuk Chun*, Junbum Cha, Bado Lee, Hyunjung Shim, "*Few-shot Font Generation with Localized Style Representations and Factorization*", IEEE Conference on Computer Vision and Pattern Recognition Workshops (**CVPRW**), 2021 and AAAI Conference on Artificial Intelligence (**AAAI**), 2021.
https://github.com/clovaai/lffont

4. Joo Hyun Park*, **Song Park***, Hyunjung Shim, "*Semantic-aware neural style transfer*, Image and Vision Computing (**IMAVIS**), vol. 87, pp. 13-23, 2019.

5. Junsuk Choe*, **Song Park***, Kyungmin Kim*, Joo Hyun Park*, Dongseob Kim*, Hyunjung Shim, "*Face Generation for Low-Shot Learning Using Generative Adversarial Networks*", International Conference on Computer Vision Workshops (**ICCVW**), 2017.

Under Review

1. **Song Park***, Sanghyuk Chun*, Junbum Cha, Bado Lee, Hyunjung Shim, "*Few-shot Font Generation with Weakly Supervised Localized Representations*", IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**, under major revision), 2021.

2. Sanghyuk Chun, Wonjae Kim, **Song Park**, Seong Joon Oh, Minsuk Chang, "*ECCV Caption: Correcting False Negatives by Collecting Machine-and-Human-verified Image-Caption Associations for MS-COCO*"

RESEARCH EXPERIENCES

Research Scientist   Jan 2022 - Present
NAVER AI Lab.

Visiting Researcher   Sep 2020 - Sep 2021
NAVER AI Lab.
Mentor: Sanghyuk Chun

Research Intern   Mar 2020 - Sep 2020
NAVER CLOVA
Mentor: Sanghyuk Chun, Junbum Cha, and Bado Lee

PROJECTS

Few-shot Font Generation   Mar 2020 - Apr 2021
· Generating a full font library with only a few reference glyphs.
· 2 papers are published: MX-Font (ICCV 2021) and LF-Font (AAAI 2021).
· 2 github repositories are available: `MX-Font`, `LF-Font`
· Working on unified few-shot font generation benchmark.

Self-supervised Deep Image Hashing   Mar 2018 - Feb 2020
· Compressing the image data into binary codes while preserving the semantic similarity.

Image Completion for Restoring Blocked Areas   Jul 2019 - Jan 2020
· Sponsored by Electronics and Telecommunications Research Institute (ETRI).
· Developed a module restores holes caused by blocking in Light-field and multi-viewpoint images.

Semantic Style Transfer   Dec 2018 - Feb 2019
· Resolving "semantic mismatch" problems in existing style transfer methods utilizing segmentation map.
· 1 paper is published in IMAVIS, 2019.

Reconstructing Environment Map   Nov 2017 - Feb 2018
· Predicting the surrounding environment map from a single image of the scene.

Face Generation and Recognition   Mar 2017 - Oct 2017
· Augmenting the low-shot face dataset using GAN model to overcome limitations of low-shot learning.
· 1 paper is published in ICCVW, 2017.

Movie Poster Classification   Mar 2016 - Feb 2017
· Training a deep model which classifies a movie poster into its genres.
· Crawled movie posters and their genres from web (`IMDb`).

ACADEMIC ACTIVITIES

Reviewer
· SIGGRAPH 2022

SCHOLARSHIPS

Full scholarship for Graduate School   Mar 2016 - Feb 2020
Institute for Information and Communications Technology Promotion (IITP)

Full scholarship for Undergraduate School   Mar 2013 - Feb 2016
Institute for Information and Communications Technology Promotion (IITP)