Seogkyu Jeon

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Summary

Research Interest   How to solve domain discrepancy in computer vision and machine learning
Current Focus   Domain Generalization, Domain Adaptation, Neural Style Transfer, Image-to-Image translation

Education

Yonsei University   *Seoul, South Korea*
PH.D IN COMPUTER SCIENCE   *Mar. 2019 - Present*
- Supervised by Prof. Hyeran Byun.

Konkuk University   *Seoul, South Korea*
B.S. IN SOFTWARE ENGINEERING   *Mar. 2013 - Feb. 2019*

Publication

Domain-aware Style Transfer Networks

KIBEOM HONG, **SEOGKYU JEON**, HUAN YANG, JIANLONG FU, HYERAN BYUN
- *Under-review*

Continuous Face Aging Generative Adversarial Networks

SEOGKYU JEON, PILHYEON LEE, KIBEOM HONG, HYERAN BYUN   *Jun. 2021*
- IEEE International Conference on Acoustics, Speech and Signal Processing (**ICASSP**)

Exploiting Transferable Knowledge for Fairness-aware Image Classification

SUNHEE HWANG[*], SUNGHO PARK[*], PILHYEON LEE[*], **SEOGKYU JEON**, DOHYUNG KIM, HYERAN BYUN   *Nov. 2020*
- The 15th Asian Conference on Computer Vision (**ACCV**)

Project

Research on Image Augmentation for Neuromorphic Software Reliability Measurement   *Yonsei Univ.*
FUNDED BY ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE (ETRI)   *Mar. 2020 - Nov. 2020*
- Developed day-to-night image translation models for driving images with Berkeley Deep Drive(BDD100K) dataset.

Research on Generating Bad Weather Images for Reliability Measurement of Autonomous Driving Models.   *Yonsei Univ.*
FUNDED BY ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE (ETRI)   *Mar. 2019 - Nov. 2019*
- Developed a multi-domain image translation model (clear, foggy, rainy, snowy).
- Built a dataset by crawling bad weather driving images from Youtube.

Honors & Awards

2017   **Excellence Award**, Seoul Accourd Software Competition   *Seoul, South Korea*
2017-2018 **Academic Excellence Scholarship**, Konkuk University   *Seoul, South Korea*

Presentation

Disentangling Identity and Aging Factor for Continuous Face Aging

Patent

Continuous Face Aging Method and Apparatus via Disentangled Representation and Multi-task Learning

HYERAN BYUN, **SEOGKYU JEON**, KIBEOM HONG, MYEONGJIN KIM, MIRAE DO   *Oct. 2020*
- Korea patent (applied), No.10-2020-0132128

Multiple Domain Arbitrary Style Transfer with Single Model and Method Thereof

Hyeran Byun, Kibeom Hong, Myeongjin Kim, **Seogkyu Jeon**, Mirae Do   *Aug. 2020*

- Korea patent (applied), No.10-2020-0108591

Image Converting Apparatus for Adapting From Synthetic Domain to Real Domain And Method Thereof

Hyeran Byun, Myeongjin Kim, **Seogkyu Jeon**   *Aug. 2020*

- Korea patent (applied), No.10-2020-0108051