Dongyeun Lee

Email: ledoye@kaist.ac.kr Website: leedongyeun.github.io Github: github.com/LeeDongYeun

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)
 M.S. - School of Electrical Engineering (Advisor: Prof. Junmo Kim)
 Korea Advanced Institute of Science and Technology (KAIST)
 B.S. - School of Computing
 Daejeon, South Korea Mar. 2016 - Feb. 2021

EXPERIENCE

Klleon AI Research
AI Researcher (Alternative military service). Worked on a virtual human avatar.

Vision and Learning Laboratory, KAIST
Research Intern. Worked on GAN-based Makeup Style Transfer project.

Dabeeo
Research Intern. Worked on Arial Image Change Detection and Object Detection.

Seoul, South Korea
Jan. 2020 - Jun. 2020
Seoul, South Korea
Apr. 2019 - Aug. 2019

PUBLICATIONS

Training Cartoonization Networks without Cartoon
Doyeon Kim, Dongyeun Lee, Donggyu Joo, Junmo Kim

ICIP 2023

Fix the Noise: Disentangling Source Feature for Controllable Domain Translation

CVPR 2023

Dongyeun Lee, Jae Young Lee, Doyeon Kim, Jaehyun Choi, Jaejun Yoo, Junmo Kim

CVPRW 2022 Best Paper Award

Fix the Noise: Disentangling Source Feature for Transfer Learning of StyleGAN

Dongyeun Lee, Jae Young Lee, Doyeon Kim, Jaehyun Choi, Junmo Kim

Selected Projects

- Explicit Controllable 3D-Aware Talking Head Synthesis: Implement 3D parametric model guided 3D-Aware Talking Head framework. Tech: Python, Pytorch, Pytorch, FLAME. Klleon AI Research. (Apr. 2022 Current)
- High-Fidelity Audio Driven Talking Head Synthesis: Develop core Lip-Sync pipeline including problem design, data collection, pre-processing, and ML model training and result deployment. Tech: Python, Pytorch. Klleon AI Research. (May 2022 Mar. 2023) Applied product: Chat-Avatar, Klone Studio.
- Photo-Realistic Sign Language Generation: Framework that consists of Text→Pose & Pose→Photo-Realistic. A full cycle project that includes data collection, pre-processing, ML model training, and evaluation. Utilized OpenPose to extract facial landmarks and pose. Tech: Python, Pytorch, OpenPose. KAIST. (Mar. 2021 Jun. 2021)

 Acknowledgement: Non-Autoregressive Sign Language Production with Gaussian Space (BMVC 2021).
- Hangul Font Generation: Service that produces a custom Hangul font from random sentences without labels written on squared manuscript papers. A full pipeline that includes raw data pre-processing, OCR, and ML model. Tech: Python, Pytorch. KAIST. (Sep. 2020 Dec. 2020)
- Makeup Style Transfer: Train and improve ML model for Makeup Style Transfer by leveraging SOTA models and methods. Tech: Python, Pytorch. Vision and Learning Laboratory, KAIST. (Jan. 2020 Jun. 2020)
- News Stream Data Analysis: Detect and analyze top-k leading events in a stream of news. Experience in extracting meaningful information from raw text data. Tech: Python, Keras, NLTK. KAIST. (Sep. 2019 Dec. 2019)
- Deepfake Detection Framework: Project that provides basic pre-trained models and datasets for Deepfake Detection. Tech: Python, Keras. KAIST. (Sep. 2019 Dec. 2019)
- M2Det Implementation: Reproduce Object Detection framework. Tech: Python, Keras. (Aug. 2019 Aug. 2019)
- Arial image Change Detection and Object Detection: Full cycle project including problem design, data collection and preprocessing, ML model training, and result deployment. Tech: Python, Keras. Dabeeo. (Apr. 2019 Aug. 2019)

SKILLS SUMMARY

• Languages: Python, Bash, C, JAVA

• Frameworks: Pytorch, Pytorch3D, TensorFlow, Keras, OpenCV, Scikit, Librosa, NLTK, Pandas

• Tools: Git, Docker

• Basic Knowledge: R, Node.js, JavaScript, MongoDB, mySQL, Scala, Kotlin, C++

Honors and Awards

• Best Paper Award, CVPR 2022 Workshops on AI for Content Creation, 1500\$ Sponsored by Google.