

I-SHENG FANG

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EDUCATION

Master of Science

September, 2020 - February, 2023

Robotics, National Yang Ming Chiao Tung University, the merger of National Chiao Tung University and National Yang Ming University.

Graduate student

January, 2020 - August, 2020

Computer Sciences, National Chengchi University.

Bachelor of Science

September, 2013 - January, 2018

Mathematical Sciences, National Chengchi University.

PUBLICATIONS

Single Image Reflection Removal based on Knowledge-distilling Content Disentanglement

Yan-Tsung Peng, Kai-Han Cheng, I-Sheng Fang, Wen-Yi Peng, Jr-Shian Wu

IEEE Signal Processing Letters(SPL) Feb. 2022

Disentangle the reflection and transmission feature via knowledge distillation and remove the reflection with a single image.

Self-Contained Stylization via Steganography for Reverse and Serial Style Transfer

Hung-Yu Chen*, I-Sheng Fang*, Chia-Ming Cheng, Wei-Chen Chiu.

(* indicates equal contribution.)

IEEE Winter Conference on Applications of Computer Vision (WACV), 2020.

[\[Project Page\]](#) Co-First author. Combine neural style transfer and deep steganography, resolve reverse and serial issue of style transfer.

PROJECTS

A Century of Heartfelt Sentiment

100th Anniversary Special Exhibition of the Taiwan Cultural Association

2021

The exhibition of National Museum of Taiwan Literature, Tainan, Taiwan.

Synthesizing DeepFake video for historical figure of Taiwan Cultural Association.

Font Design with Progressive invariant GANs

2017

Honorable Mention of MOST Workshop on Generative Adversarial Networks and GAN Project Competition. Introduced GLCM, an invariant, in progressive growing VAE-GAN to embed font in \mathbb{R}^{300} latent space. Generated new font or glyph by modifying the latent space. Improved training speed, convergence speed and higher resolution.

Hanzi Typeface Research with Conditional Generative Adversarial Network

2017

Poster of Taiwan Society for Industrial and Applied Mathematics Annual Meeting.

Using autoencoder and conditional GAN to embed font in \mathbb{R}^n latent space.

Advisor: Prof. Yen-Lung Tsai.

APPOINTMENTS

Microsoft AI R&D Center, Taiwan

March, 2022 - November, 2022

Software Engineer Intern (Face Science)

Investigated vision transformer(ViT) and perceptual loss.

Enriched Vision Applications Lab

September, 2018 - September, 2019

Research Assistant

Lab of National Chiao Tung University. My advisor is Professor Wei-Chen Chiu.

The First Step of AI and Deep Learning with Python

July, 2018 - September, 2018

Teaching Assistant

The MOOCs of National Chengchi University.

Wrote the cue for video cut and additional tips, solved students' problems by online and offline. Teacher is Prof. Yen-lung Tsai.

Fire Department, New Taipei City Government

March-June, 2018

Fire Fighting Substitute Military Services

Discharged on June 23rd, 2018.

InQtech Co.,Ltd

September, 2017 - June, 2018

Deep Learning Scientist

InQtech is AI and AIOT startup. Deployed AI in industry.

Researcher of PCB segmentation by GAN project.

Used semi-supervised GAN model to segment part of PCB for robotic assembling.

The First Step of Data Analysis with Python

September, 2017 - January, 2018

Teaching Assistant

The MOOCs of National Chengchi University.

Wrote the cue for video cut and additional tips, solved students' problems by online and offline. Teacher is Prof. Yen-lung Tsai.

Leopard Mobile

July-September, 2017

intern

Data analysis in CM Security commerce realization team.

Predicted user behavior prediction with deep learning model

NCCU Deep Learning & TWSIAM Student Group

January, 2017-January, 2018

Member

Winning **first** place of study group final presentation in NCCU.

Usually discussion host, especially in GAN.

TECHNICAL SKILL

Computer Languages

Python

Deep Learning related

PyTorch, Keras, TensorFlow

Computer Vision related

OpenCV

Data Science related

Pandas, Mathplotlib, scikit-learn

Tools

VS code, Jupyter Lab & Notebook, Vim, Bash, Linux

Others

Film Photography, Typography, Pitching, Curation