

SHANG-FU CHEN

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EDUCATION

National Taiwan University
PhD student

Sep 2019 - Present
Advisor: Prof. Shao-Hua Sun

National Taiwan University
Undergraduate student
Department of Electronic Engineering

Sep 2013 - Jan 2018

PUBLICATION

Shang-Fu Chen*, Yi-Chen Chen*, Chih-Kuan Yeh, Yu-Chiang Frank Wang,
“Order-Free RNN with Visual Attention for Multi-Label Classification”,
AAAI Conference on Artificial Intelligence (**AAAI**) 2018 (*equal contributions). [\[PDF Link\]](#)

Yen-Ting Liu, Yu-Jhe Li, Fu-En Yang, **Shang-Fu Chen**, Yu-Chiang Frank Wang
“Learning Hierarchical Self-Attention for Video Summarization”,
IEEE International Conference on Image Processing (**ICIP**) 2019. [\[PDF Link\]](#)

Shang-Fu Chen, Jia-Wei Yan, Ya-Fan Su, Yu-Chiang Frank Wang
“Representation Decomposition for Image Manipulation and Beyond”,
IEEE International Conference on Image Processing (**ICIP**) 2021. [\[PDF Link\]](#)

Shang-Fu Chen, Yu-Min Liu, Chia-Ching Lin, Trista Pei-Chun Chen, Yu-Chiang Frank Wang
“Domain-Generalized Textured Surface Anomaly Detection”,
IEEE International Conference on Multimedia and Expo (ICME) 2022. [\[PDF Link\]](#)

Shang-Fu Chen, Yu-Min Liu, Chia-Ching Lin, Trista Pei-Chun Chen, Yu-Chiang Frank Wang
“Few-Shot Feature Hallucination for Anomaly Detection”,
(Under preparation)

RESEARCH EXPERIENCE

Robot Learning Lab, National Taiwan University
PhD Student
Advisor: Prof. Shao-Hua Sun

Sep 2022 - Present

Vision and Learning Lab, National Taiwan University
PhD Student
Advisor: Prof. Yu-Chiang Frank Wang

Sep 2019 - Aug 2022

- Introduced a training RNN-based framework that addresses the label ordering problem for multi-label classification (AAAI'18)
- Proposed a representation disentanglement methods that derives interpretable features for existing GAN-based models (ICIP'21)

Inventec AI Center
AI Internship
Advisor: Dr. Trista Pei-Chun Chen

Feb 2021 - Aug 2022

- Introduced a domain-generalized learning framework for anomaly detection (ICME'22)

RESEARCH INTEREST

Imitation Learning, Anomaly Detection, Computer Vision, and Representation Learning