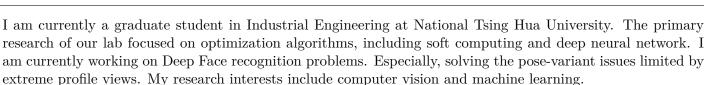
En-Rong Tsai

Email: enrong.tsai@gapp.nthu.edu.tw

Mobile: +886-978-508-523LinkedIn | Github | Facebook

Introduction



EDUCATION

National Tsing Hua University

Master of Science in Industrial Engineering

National Chung Cheng University

Bachelor of Arts in Economics

Hsinchu, Taiwan

Aug. 2018 - Present

Chiayi, Taiwan

Sep. 2012 - Jun. 2016

RESEARCH EXPERIENCE

The 21st Decision Analysis Symposium:

• Dec. 2018

Our team presents a consumer behavior analysis report based on the Analytic Hierarchy Process (AHP) that provides budget airlines with competitive strategies and service adjustment suggestions on specific routes.

Minitab Analytic Hierarchy Process Expert Choice SurveyCake

Knowledge Engineering Lab:

• Aug. 2018 - Feb. 2019

Utilize the text mining approach, including TFIDF and K-means clustering, to manipulate the Knowledge Acquisition process and analyze the research trend of virtual reality exposure therapy (VRET) in phobia treatment from 2008 to 2018.

Python TF-IDF K-means

• Aug. 2018 - Feb. 2019

Responsible for establishing a virtual reality environment for VRET therapy research on driving phobia. The research is in collaboration with Chang Gung Hospital and uCare Medical Electronics.

C# (Unity) (HTC VIVE pro)

Integration & collaboration Lab:

• Dec. 2019

Invited by Advisor, I was honored to give a lecture in IEEM1080105, talk about the recent progress of deep learning based face recognition and the leap forward of our current research.

• May 2019 - Present

My MS thesis entitled Improved Training Loss Function For Pose-Robust Deep Face Recognition. Our research base on Convolutional Neural Networks (CNN) proposes an Improved Training Loss Function for solving the pose-variant issues that confront by extreme profile views. The proposed loss function can dynamically manipulate the learning weight correspond to the yaw degrees of the profile images with the supervision of state-of-the-art learning loss to ensure both discriminability and the large profile learning. Furthermore, due to the attribute of alleviating imbalanced training data issues, we expect the contribution of our research can extend to address other fine-grained object classification problems.

Python PyTorch OpenCV



Teaching & Leadership:

- Sep. 2009 Present
 - 10+ years of instructor experience with training certificate for True Jesus Church Religious Education. (Teaching experience from elementary school children to high school teenagers.)
- Sep. 2012 Jun. 2016
 - Participated in the Living Water Fellowship* as the President and Event General Coordinator for 2+ years.
 - *Living Water Fellowship is a Christian joint club of Six Universities in the Chiayi region concerning non-profit social services and sharing religious faith.

Awards and Achievements

- Sep. 2012 Aug. 2013
 - Associated in the department badminton team and won the champion of the 2012 economics cup.
- Feb. 2015 Jun. 2015

Participate in Industrial economic startup competition, our group won 2nd place in the overall ranking, and 1st place in campus non-profit startup categories.

SKILLS

- Programming Languages: Python, C, C#, VimL, LaTex, HTML 5, CSS, Javascript
- Frameworks & Develops Tools: PyTorch, OpenCV, Vim, Tmux, Github, Ubuntu Server, Docker, GCP Compute Engine
- Languages: TOEIC: 750/990 (2012)