陳彥合 Yan-He Chen

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EDUCATION

National Taiwan Normal University — *September 2020 - July 2022*
Master of Computer Science and Information Engineering

Kaohsiung Medical University — *September 2014 - June 2018*
Bachelor of Healthcare Administration and Medical Informatics

WORK EXPERIENCE

Delta Electronics, Delta Research Center (DRC) — *January 2023 - Present*
Senior R&D Engineer

- Gaze Direction and Head Posture of Factory Workers
  - Research leader in deep models for pose estimation and gaze estimation, and developed a Python API.
  - Result: accuracy 99%, angle error less than 5 degrees, FPS: 40.
- Abnormal Event Detection on Factory
  - Study the Action Recognition and Abnormal Detection, and use continues image to detect abnormal events.
  - Results: 81% accuracy, continuous improvement.
- Identification of human body balance status
  - Study the knowledge of Pose Estimation and Walking Plan for Biped robot, based on continuous image to recognition balance status.
  - Achieved identification of static and dynamic equilibrium states, and developed APP and Python versions.
- Use speech synthesis models and speech cloning models to generate sounds and use them in existing products.

National Taiwan Normal University, CSIE — *September 2022 - January 2023*
Research Assistant

- Research self-supervised and Generative models to enhance image recognition with zero-hot learning.
  This work was published in ***Multimedia tools and applications (IF: 3.0) 2024***.

SIDE PROJECT

National Taiwan University — *February 2022 - August 2022*
- Study on Generalized Zero-Shot Learning image recognition, published in ***Multimedia Systems 2024 (IF: 3.5).***

National Taiwan Normal University — *March 2021 - August 2021*
- Research on zero-shot learning image recognition, published in ***ACM ICMR 2021***.

Kaohsiung Medical University, Department of Occupational Therapy — *October 2017 - June 2018*
- Build a computerized attentional testing system for patient rehabilitation, test time reduced by ten minutes.

PUBLICATIONS

Self-Supervised Learning of Pseudo Classes for Generalized Zero-Shot Fine-Grained Recognition
Yan-He Chen and *Mei-Chen Yeh* — *Multimedia Tools and Applications (IF: 3.0) [paper] 2024*

Indirect Visual-Semantic Alignment for Generalized Zero-Shot Recognition
Yan-He Chen and *Mei-Chen Yeh* — *Multimedia Systems (IF: 3.5) [paper][code] 2024*

Weakly- and Semi-Supervised Object Localization
Zhen-Tang Huang, ***Yan-He Chen*** and *Mei-Chen Yeh* — *IEEE ICASSP [paper] 2023*

Text-Enhanced Attribute-Based Attention for Generalized Zero-Shot Fine-Grained Image Classification
Yan-He Chen and *Mei-Chen Yeh* — *ACM ICMR [paper] 2021*