YAN-HE CHEN (Henry)

in https://www.linkedin.com/in/yanherchen

✉ yanherchen@gmail.com

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

PUBLICATIONS

Weakly- and Semi-Supervised Object Localization

Zhen-Tang Huang, **Yan-He Chen** *and Mei-Chen Yeh*   *IEEE ICASSP 2023*

Text-Enhanced Attribute-Based Attention for Generalized Zero-Shot Fine-Grained Image Classification

Yan-He Chen, *Mei-Chen Yeh*   *ACM ICMR 2021*

Traditional Chinese Scene Text Detection   *IPPR CVGIP 2021 special issue*

Yan-He Chen, *Chia-Fu Yeh, Yu-Wen Tung, Zhen-Tang Huang, Chieh-Yu Chen, Mei-Chen Yeh*

EXPERIENCE

Delta Electronics, Delta Research Center (DRC)   *January 2023 - Present*

R&D Engineer

- Survey papers and implementation of SOTA methods.

- Improve the performance and efficiency of the current deep model in real-world applications.

- Integrate multiple deep models and algorithms, and deploy to multiple operating systems.

- Write API and module encryption.

- Analyze the gap between AI methods and real-world application, and propose solutions.

- Experience with the following real-world applications:

  - Action Recognition   - Head Pose Estimation

  - Face Detection   - Human Pose Detection

  - Gaze Estimation   - Object Tracking

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

Research Assistant

- Study the feasibility development of zero-hot learning and self-supervised learning in image recognition, segmentation and object detection. The research is under review.

National Cheng Kung University, CSIE   *February 2018 - October 2018*

Research Assistant

- Develop **web crawlers** to collect unstructured data, clean and filter data, totaling **128 billion words**.

- Train text models (**word2vec**, **seq2seq**) with a total of **200 million sentences**, **1TB in size**.

- Develop an **android app** to collect the patient's voice, video and text data and send it back to the server. And **integrate pre-trained deep learning models** into the server to analyze the patient's emotions.

Other EXPERIMENCE

National Taiwan University   *February 2022 - August 2022*

Part-time Research Assistant

- We leverage GAN and metric learning to address intra-class differences and inter-class similarities for generalized zero-shot classification tasks. This work is currently under review.

National Taiwan Normal University   *March 2021 - August 2021*

Part-time Research Assistant

- I improve a zero-shot learning study published in CVPR 2020 to increase its accuracy by **5%**. Our research was published at **ICMR 2021**.

Kaohsiung Medical University, Department of Occupational Therapy   *October 2017 - June 2018*

Part-Time Research Assistant

- Design and build a **computerized attentional testing system** for patient rehabilitation, reducing patient testing time by an average of **10 minutes**.

KMU Chung-Ho Memorial Hospital, Department of Internal Medicine   *September 2017 - June 2018*

Part-Time Research Assistant

- Research the design of **mind map** in the operation interface of medical records. I am responsible for building a **humanized interface system** for medical records and auxiliary medical diagnosis.

SKILLS

Programming Language: Java, Python, Javascript, C#
Software: Web, Android App
Deep Learning Framework: PyTorch, TensorFlow
System & Server: Linux, Windows, MySQL

AWARDS

Awarded Outstanding Postgraduate Student   *2021*

- *National Taiwan Normal University*

Honorable Mention Award in Artificial Intelligence CUP Award   *2021*

- *Ministry of Education*