CHENG CHIEN

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👤 https://www.linkedin.com/in/cchien1999/

Education

September 2022- Current
Master of Science,
National Yang Ming Chiao Tung University, Taiwan, ROC

Computer Science
4.08 / 4.3 GPA

September 2018-June 2022
Bachelor of Science,
National Sun Yat-sen University, Taiwan, ROC

Computer Science and Engineering
4.01 / 4.3 GPA

Projects

Machine Learning
- Implement a system combine learned image compression codec and MLLMs
- Implement Conditional VAE for Video Prediction

Software Security
- The Study and Implementation of Secure Device Pairing and Access Control for Smart IoT Devices

Network
- Implementation of TCP Protocol using UDP
- Huffman Compression Algorithm

School Activities

September 2020 - June 2021
North Alumni Association,
National Sun Yat-sen University, Taiwan, ROC

Director
- Hosted events for over 100 people
- Organized numerical activities of our association

Febuary 2019 - February 2020
Coding4Fun,
National Sun Yat-sen University, Taiwan, ROC

Member

Publications

- Y.-H. Chen, Y.-C. Weng, C.-H. Kao, **C. Chien**, W.-C. Chiu, W.-H. Peng, "*TransTIC: Transferring Transformer-based Image Compression from Human Visualization to Machine Perception*," IEEE International Conference on Computer Vision (ICCV), Oct. 2023.
- M.-J. Chen, H.-S. Xie, **C. Chien**, W.-H. Peng, H.-M. Hang, "*Learned Hierarchical B-frame Coding with Adaptive Feature Modulation for YUV 4:2:0 Content*," IEEE International Symposium on Circuits and Systems (ISCAS), May 2023.
- C.-H. Kao*, Y.-H. Chen*, **C. Chien**, W.-C. Chiu, and W.-H. Peng, "*Transformer-based Image Compression with Variable Image Quality Objectives*," Asia-Pacific Signal and Information Processing Association (APSIPA) Annual Summit and Conference, Oct. 2023.

Honors and Awards

- Taiwan Imaging-Tek Corporation Scholarship
- Excellent Student Awards
- Calculus Contest Awards
- Cathay Financial Holdings Customer-Children Scholarship
- New Taipei City Apartment Building Management Services Occupational Union Scholarship

Programming Skills

Python, C, C++

Certifications

2021
Coding4Fun

Programming Language Teacher
Training the students' logical abilities.

2020
TOEIC

TOEIC Blue
Score 845

2019
CPE

Advanced Level
Collegiate Programming Examination