

CHENG CHIEN

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Education

September 2022- 2024	Computer Science
Master of Science, National Yang Ming Chiao Tung University, Taiwan, ROC	4.19 / 4.3 GPA
September 2018-June 2022	Computer Science and Engineering
Bachelor of Science, National Sun Yat-sen University, Taiwan, ROC	4.01 / 4.3 GPA

Projects

Machine Learning
<ul style="list-style-type: none">Implement a system combine learned image compression codec and MLLMsImplement Conditional VAE for Video Prediction
Software Security
<ul style="list-style-type: none">The Study and Implementation of Secure Device Pairing and Access Control for Smart IoT Devices
Network
<ul style="list-style-type: none">Implementation of TCP Protocol using UDPHuffman Compression Algorithm

School Activities

September 2020 - June 2021	Director
North Alumni Association, National Sun Yat-sen University, Taiwan, ROC	<ul style="list-style-type: none">Hosted events for over 100 peopleOrganized numerical activities of our association
Febuary 2019 - February 2023	Outreach Instructor
Taiwan Happy Coding Promotion Association, Taiwan, ROC	<ul style="list-style-type: none">Promoting programming skills and inspiring Taiwanese children through engaging tech education.

Publications

<ul style="list-style-type: none">C.H. Kao, C. Chien, Y.J. Tseng, Y.H. Chen, A. Gnutti, S.Y. Lo, W.H. Peng, R. Leonardi, "ComNeck: Bridging Compressed Image Latents and Multimodal LLMs via Universal Transform-Neck," <i>arXiv preprint arXiv:2407.19651</i>, 2024.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," <i>IEEE International Conference on Computer Vision (ICCV)</i>, 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," <i>IEEE International Symposium on Circuits and Systems (ISCAS)</i>, 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," <i>Asia-Pacific Signal and Information Processing Association (APSIPA)</i>, Oct. 2023.

Honors and Awards

<ul style="list-style-type: none">Top Creativity AwardTop Creativity Award, IEEE ISCASTaiwan Imaging-Tek Corporation ScholarshipExcellent Student Awards, NSYSUCalculus Contest Awards, NSYSUCathay Financial Holdings Customer-Children ScholarshipNew Taipei City Apartment Building Management Services Occupational Union Scholarship
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Skills

Python, C++, Machine Learning, Multimodal Large Language Model, Image Compression

Certifications

2021 Happy Coding Promotion Association	Outreach Instructor Inspiring Taiwanese kids through fun tech education
2020 TOEIC	TOEIC Blue Score 845
2019 CPE	Advanced Level Collegiate Programming Examination