Chia-Hao Kao

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Hsinchu, Taiwan
Brescia, Italy
joek6279.github.io

Work Experience

Researcher, *University of Brescia*
2024 – present | Brescia, Italy

Education

M.S. Multimedia Engineering,
National Yang Ming Chiao Tung University
2021 – 2023

B.S. Computer Science,
National Central University
2017 – 2021

Skills

Programming
Python, C++, C

Deep Learning
Foundamental knowledge, advanced experiences

English Proficiency
TOEIC 990, fluent speaker

Problem solving

Tools
Git, Github, linux

Profile

A dedicated and highly-motivated CS graduate, with strong foundation on both pratical programming skill and basic knowledge. Familar with ML and DL, with plenty of hands-on experiences. Extensive research experiences on image and video compression, and computer vision fields.

Publication

Bridging Compressed Image Latents and Multimodal Large Language Models, *2025 International Conference on Learning Representations (ICLR)*
Chia-Hao Kao, Cheng Chien, Yu-Jen Tseng, Yi-Hsin Chen, Alessandro Gnutti, Shao-Yuan Lo, Wen-Hsiao Peng, Riccardo Leonardi

Learning Optimal Linear Block Transform by Rate Distortion Minimization,
2025 Data Compression Conference
Alessandro Gnutti, **Chia-Hao Kao**, Wen-Hsiao Peng, Riccardo Leonardi

TransTIC: Transferring Transformer-based Image Compression from Human Visualization to Machine Perception,
2023 International Conference on Computer Vision (ICCV)
Yi-Hsin Chen, Ying-Chieh Weng, **Chia-Hao Kao**, Cheng Chien, Wei-Chen Chiu, Wen-Hsiao Peng

Transformer-Based Image Compression with Variable Image Quality Objectives, *2023 Asia Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA)*
Chia-Hao Kao, Yi-Hsin Chen, Cheng Chien, Wei-Chen Chiu, Wen-Hsiao Peng

Transformer-based Variable-rate Image Compression With Region-of-interest Control, *2023 IEEE International Conference on Image Processing (ICIP)*
Chia-Hao Kao, Ying-Chieh Weng, Yi-Hsin Chen, Wei-Chen Chiu, Wen-Hsiao Peng

Neural Frank-Wolfe Policy Optimization for Region-of-Interest Intra-Frame Coding with HEVC/H.265, *2022 IEEE International Conference on Visual Communications and Image Processing (VCIP)*
Yung-Han Ho, **Chia-Hao Kao**, Wen-Hsiao Peng, Ping-Chun Hsieh