Delong Chen (陈德龙)

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Education

The Hong Kong University of Science and Technology   **Sept. 2023 – Present**
  Ph.D. Student in ECE Department, adviced by Prof. Pascale Fung   Hong Kong, China
Hohai University   **Sept. 2017 – Jun. 2021**
  B.E. in Computer Science, adviced by Prof. Fan Liu   Nanjing, China
University of British Columbia   **Jul. 2018 – Aug. 2018**
  Summer Program: Linguistics and computation for natural language processing   Vancouver, Canada

Work Experience

Research Intern   Xiaobing.ai (Microsoft Xiaoice)   **Mar. 2023 – Sept. 2023**
  Visual instruction tuning of multimodal LLMs   Beijing, China
Research Intern   MEGVII Research   **Oct. 2021 – Oct. 2022**
  Large-scale vision language pretraining   Beijing, China
Research Assistant   Hohai University   **Sept. 2021 –Sept. 2023**
  Vision-language learning for remote sensing   Nanjing, China

Awards and Prizes

- **Best Paper** at AAAI 2023 Inaugural Summer Symposium Series - AI x Metaverse
- **Best Demo** Award in *IEEE International Conference on Multimedia and Expo (ICME) 2021*
- **Best Dataset** Paper Award in *Long-Tailed Distribution Learning Workshop, IJCAI 2021*
- **Best Presentation** Award in *International Conference on Big Data and Artificial Intelligence (BDAI) 2021*
- **First-Class Outstanding Thesis** in Jiangsu Province
- **Outstanding Thesis** of Hohai University
- **Outstanding Graduate** of Hohai University
- **Person of the Year** of the in Jiangsu Province (nomination award)
- **Person of the Year** of Hohai University in 2019
- **Third Prize** of the 8th China Software Cup, East China Division Finals (team Leader)

Publications

[1] **Delong Chen**, Jianfeng Liu, Wenliang Dai, Baoyuan Wang
Visual Instruction Tuning with Polite Flamingo
Thirty-Eighth AAAI Conference on Artificial Intelligence (AAAI), 2024. [github] [arxiv]

[2] **Delong Chen**, Zhao Wu, Fan Liu, Zaiquan Yang, Huaxi Huang, Ying Tan, Erjin Zhou.
ProtoCLIP: Prototypical Contrastive Language Image Pretraining
IEEE Transactions on Neural Networks and Learning Systems (T-NNLS), 2023. [github] [arxiv] [doi]

[3] **Delong Chen**, Fan Liu, Zewen Li, Feng Xu
VirtualConductor: Music-driven Conducting Video Generation System
IEEE International Conference on Multimedia & Expo (ICME) 2021. [video] (Best Demo)

[4] **Delong Chen**, Fan Liu, Xiaoyu Du, Ruizhuo Gao, Feng Xu.
MEP-3M: A Large-scale Multi-modal E-Commerce Products Dataset
IJCAI-21 Workshop on Long-Tailed Distribution Learning, 2021. [paper] (Best Dataset Paper)

[5] **Delong Chen**, Fan Liu, Zheqi Zhang, Xiaomin Lu, Zewen Li
Significant Wave Height Prediction based on Wavelet Graph Neural Network
The 4th International Conference on Big Data and Artificial Intelligence, 2021. [arxiv] [doi] (Best Presentation)

[6] **Delong Chen**, Shunhui Ji, Fan Liu, Zewen Li, Xinyu Zhou
A Review of Automated Diagnosis of COVID-19 Based on Scanning Images
The 6th International Conference on Robotics and Artificial Intelligence, 2020. [arxiv] [doi] (Oral)

[7] **Delong Chen**, Ruizhi Zhou, Yanling Pan, Fan Liu.
A Simple Baseline for Adversarial Domain Adaptation-based Unsupervised Flood Forecasting
ArXiv Technical Report, 2022. [github] [arxiv]

[8] Fan Liu*, **Delong Chen***, Zhangqingyun Guan, Xiaocong Zhou, Jiale Zhu, Jun Zhou
RemoteCLIP: A Vision Language Foundation Model for Remote Sensing
ArXiv Technical Report, 2023. [github] [arxiv]

[9] Fan Liu*, **Delong Chen***, Xiaoyu Du, Ruizhuo Gao, Feng Xu
MEP-3M: A Large-scale Multi-modal E-commerce Product Dataset
Pattern Recognition, 2023. [github] [doi]

[10] Fan Liu*, **Delong Chen***, Fei Wang, Zewen Li, Feng Xu
Deep Learning based Single Sample Face Recognition: A Survey
Artificial Intelligence Review, 2022. [arxiv] [doi]

[11] Xinyu Zhou*, **Delong Chen***, Yudong Chen
Towards Joint Modeling of Dialogue Response and Speech Synthesis based on Large Language Model
The 6th International Conference on Natural Language and Speech Processing (ICNLSP), 2023. [github] [arxiv]

[12] Fan Liu, **Delong Chen** ✉,Ruizhi Zhou, Sai Yang, Feng Xu
Self-Supervised Music Motion Synchronization Learning for Music-Driven Conducting Motion Generation
Journal of Computer Science and Technology (JCST), 2022 [github] [video] [doi]

[13] Fan Liu, **Delong Chen** ✉,Xiaocong Zhou, Wenwen Dai, Feng Xu
Let AI Perform Better Next Time — A Systematic Review of Medical Imaging-based Automated Diagnosis of COVID-19: 2020-2022
Applied Sciences, 2022. [doi]

[14] Fan Liu, Tianshu Zhang, Wenwen Dai, Wenwen Cai, Xiaocong Zhou, **Delong Chen** ✉
Few-shot Adaptation of Multi-modal Foundation Models: A Survey
Under Review, 2023 [preprint]

[15] Fan Liu, **Delong Chen**, Jun Zhou, Feng Xu
A Review of Driver Fatigue Detection and Its Advances on the Use of RGB-D Camera and Deep Learning
Engineering Applications of Artificial Intelligence, 2022. [doi]

[16] Fan Liu, Sai Yang, **Delong Chen**, Huaxi Huang, Jun Zhou
Few-shot Classification Guided by Generalization Error Bound
Pattern Recognition, 2023. [doi]

[17] Sai Yang, Fan Liu, **Delong Chen**, Jun Zhou
Few-shot Classification via Ensemble Learning with Multi-Order Statistics
Thirty-Second International Joint Conference on Artificial Intelligence (IJCAI), 2023. [arxiv] (Oral)

[18] Zhuoran Zhao, Jinbin Bai, **Delong Chen**, Debang Wang, Yubo Pan
Taming Diffusion Models for Music-driven Conducting Motion Generation
AAAI 2023 Inaugural Summer Symposium Series – AI x metaverse. [github] [arxiv] (Best Paper)