Delin Chen

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Education

Wuhan University Computer Science and Technology B.S. GPA: 3.93/4.00	Wuhan, China 2020–2024	
Coursework: Data Structures 93, Linear Algebra 92, Artificial Intelligence 96, Discrete Math 93, Statistics/Probability 95, Computer Vision 93, Computer Graphics 100, Machine Learning and Pattern Recognition 96 Publication (* = equal contribution)		
Compositional VLM: Composing Visual Entities and Relationships in Large Language Mod Decoding. Junyan Li, Delin Chen , Yining Hong, Zhenfang Chen, Peihao Chen, Yikang Shen, Chuan	[Preprint	
	-	
Scratch Each Other's Back: Incomplete Multi-modal Brain Tumor Segmentation Via Cate Support Learning. Yansheng Qiu*, Delin Chen *, Hongdou Yao, Yongchao Xu, Zheng Wang.	egory Aware Group Seit [ICCV 2023	
<i>Modal-aware Visual Prompting for Incomplete Multi-modal Brain Tumor Segmentation.</i> Yansheng Qiu, Ziyuan Zhao, Hongdou Yao, Delin Chen , Zheng Wang.	[ACM-MM 2023	
<i>Query Re-Training for Modality-Gnostic Incomplete Multi-modal Brain Tumor Segmentat.</i> Delin Chen , Yansheng Qiu, Zheng Wang.	ion. [MICCAI workshop 2023	
<i>TransRef: Multi-Scale Reference Embedding Transformer for Reference-Guided Image Inp</i> Liang Liao*, Taorong Liu*, Delin Chen , Jing Xiao, Zheng Wang, Chia-Wen Lin, Shin'ich		
Reasearch Experience		
 MIT-IBM AI Lab & UMass Amherst Research Intern Topics: Large multimodal model, compositional VLM, visual grounding Proposed Compositional VLM, which guides the LLM to explicitly compose visual within text and dynamically communicates with the detection network to achieve visio decoding. 		
Wuhan University- WuYu Lab Reasearch Assiant	Oct 2023–Presen	
Topics: Intention-oriented reasoning, visual grounding – Proposed the integration of decomposed visual cues into Large Language Models as menting their reasoning abilities in complex tasks.	Advisor: <i>Yu Wi</i> a novel approach to aug	
Wuhan University- Al& Multimedia Lab Reasearch Assiant	May 2022–Mar 2023	
 Topics: Medical image analysis, incomplete multimodal learning Proposed to explore self-distillation across different modalities to address the issue between modalities and utilize the dominating characteristics of several modalities mutual knowledge. 	Advisor: Zheng Wang of insufficient interaction	
 Proposed a transformer-based end-to-end model that used just one auto-encoder to pr tions in any modality missing condition. 	rovide interactive computa	
 Utilized embeddings as the prompts generated by a modality state classifier that focus states to facilitate intra/inter-modal adaptation. 	ses on the missing modality	
Wuhan University- Al& Multimedia Lab Reasearch Assiant	Sep 2021–May 2022	
Topics: Reference-based image inpainting – Investigated the concept of reference-guided image inpainting as a means of compl insufficient information	Advisor: <i>Zheng Wang</i> eting complex scenes with	

- Proposed a transformer-based network with a multi-scale reference embedding procedure to address issues in image alignment and content restoration in situations with large missing regions.

Awards

Leijun Undergraduate Computer Science Scholarship	Oct 2023
Wuhan University Excellent Student Award	Sept 2023
CCF (China Computer Federation) Elite Collegiate Award (102 Students Nationwide)	Aug 2023
A-Class Academic Excellence Scholarship (top 5% in WHU)	Sept 2023
B-Class Academic Excellence Scholarship	Sept 2021,2022