Dongyang Li

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Education

Southern University of Science and Technology 2023-09 – Present
Master of Engineering, Electronic Science and Technology   GPA: 3.28/4.00 *Shenzhen, Guangdong, China*

Zhengzhou University 2019-09 – 2023-07
Bachelor of Engineering, Computer Science and Technology   GPA: 3.54/4.00 *Zhengzhou, Henan, China*

Research Experience

AI for Invasive Brain-computer interface 02, 2023 – Present
Southern University of Science and Technology (SUSTech) *Shenzhen, Guangdong, China*

- Advisor: Quanying Liu, Professor of SUSTech, PI of NCCLab
- A unified framework to align the human brain with foundation models
- Brain-computer interface based on large models

Research Interests

Representation Learning, Multi-modality Learning, Brain-computer Interface.

Publications

Dongyang Li, Chen Wei, Shiying Li, Jiachen Zou, and Quanying Liu. "Visual Decoding and Reconstruction via EEG Embeddings with Guided Diffusion." *The Thirty-Eighth Annual Conference on Neural Information Processing Systems (NeurIPS 2024)*

Dongyang Li, Haoyang Qin, Mingyang Wu, Yuang Cao, Chen Wei and Quanying Liu. "RealMind: Zero-Shot EEG-Based Visual Decoding and Captioning Using Multi-Modal Models." (***In submission***)

Ruichao Zhan, **Dongyang Li (Co-first author)**, Song Wang and Quanying Liu. "D2CAN: Domain-guided contrastive adversarial network for EEG-based cross-subject cognitive workload decoding." *The Fourth International Workshop on Human Brain and Artificial Intelligence (IJCAI 2024)*

Yiwei Kong, **Dongyang Li**, Jiahua Tang, Chen Wei and Quanying Liu. "A closed-loop EEG-based visual stimulation framework from controllable generation." (***In submission***)

Awards & Honors

"Challenge Cup" National Innovation and Entrepreneurship Plan Competition
Provincial Special Award and National Bronze Award *2020.10*

China Robot Competition, Advanced Vision Competition 3D Recognition Project
National First Prize (Captain) *2022.04*

China Robot Competition, Advanced Vision Competition Industrial Measurement Project
National First Prize (Captain) *2022.04*

Professional Service

Conference Reviewing: *ICLR, ICML, ICME*