Pengyuan Li

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BASIC INFORMATION

Gender: Male
Place of Birth: Handan, Hebei, China
Date of Birth: September, 2000
Interests: Multi-view/Multi-modal Representation Learning, Self-supervised Learning, and Contrastive Learning

EDUCATION

Beijing Jiaotong University, Beijing, China — Sep. 2024 - Until Present

-> Major in artifical intelligence. Advisor: Dongxia Chang

Beijing Jiaotong University, Beijing, China — Sep. 2023 - Jun. 2024

-> Graduate student, master's degree of electronic information. Advisor: Dongxia Chang

Hebei Agricultural University, Baoding, China — Sep. 2019 - Jun. 2023

-> Major in computer science and technology, Bachelor of Engineering, outstanding Graduate. Advisor: Bo Liu

WORK EXPERIENCE

National Natural Science Foundation of China (General Program) — Participate — 2022 - 2026

- To explore the underlyding structure of incomplete multimodal data, this work aims to design a specific deep neural network to enbale them to adaptively divide into multiple clusters in an unsupervised manner.
- We propose a novel Activate-Then-Eliminate Strategy for Multi-View Clustering and write a related paper, which is accepted by ACM MM 2025.

Beijing Natural Science Foundation — Participate — 2025 - 2028

- To address the issues in fibrous lesions of the jawbone, this work aims to construct a high-performance and case-omics intelligent auxiliary diagnostic model, thereby enhancing the objectivity, accuracy and repeatability of pathological diagnosis.
- Designed a two-stage self-supervised multi-instance learning algorithm to enhance the model's focus on real lesions according to the correlation between medical images and semantic keywords.

PUBLICATIONS

[1] **Pengyuan Li**, Dongxia Chang*, Yiming Wang, Zisen Kong, Linhua Kong, Yao Zhao. Disentangled Contrastive Multi-view Clustering via Semantic Relevance Invariance. IEEE Transactions on Knowledge and Data Engineering 2026. [PDF] / [CODE] (Q1 TOP, CCF-A)

[2] **Pengyuan Li**, Man Liu, Dongxia Chang*, Yiming Wang, Zisen Kong, Yao Zhao. AEMVC: Mitigate Imbalanced Embedding Space in Multi-view Clustering. ACM MM 2025. [PDF] / [CODE] (CCF-A)

[3] **Pengyuan Li**, Dongxia Chang*, Yiming Wang, Man Liu, Zisen Kong, Linhua Kong, Yao Zhao. Deep Multi-view Clustering with Intra-view Similarity and Cross-view Correlation Learning. IEEE Transactions on Multimedia 2025. [PDF] / [CODE] (Q1 TOP, CCF-A)

[4] **Pengyuan Li**, Dongxia Chang*, Zisen Kong, Yiming Wang, Yao Zhao. DCMVC: Dual Contrastive Multi-view Clustering. Neurocomputing 2025. [PDF] / [CODE] (Q2 TOP, CCF-C)

[5] Aobo Zhang^, **Pengyuan Li**^, Jiang Xue^, Jianyun Zhang, Zhu You, Shaohua Ge, Zhipeng Sun, Dongxia Chang*. Deep Learning on Histology Images for Differentiating of Fibro-Osseous. Journal of Dental Research 2025. [PDF] / [CODE] (Q1 TOP)

AWARDS

1. Outstanding Graduate Student of the School of Computer Science, Beijing Jiaotong University, 2024 - 2025.
2. First-class Scholarship for the Entire University of Beijing Jiaotong University, 2023 - 2025.
3. National Bronze Award of the 2022 China University Computer Competition - Team Programming Ladder Competition.
4. National Bronze Award of China Computer Design Contest 2022.
5. Hebei Provincial Department of Science and Technology's Special Project for Cultivating the Scientific and Technological Innovation Ability of Middle School Students (Completed), 2021.