

Dr. Zhihao PENG

☎ (+852) 57499654

✉ zhihapeng3-c@my.cityu.edu.hk

🌐 <https://github.com/ZhihaoPENG-CityU>

🏠 Room 3308, Lung Chu Court, Block C, Lung Poon Court, Wong Tai Sin

🐦 Frank PN

✉ WeChat: pzh01-14-07-22-01-07

🆔 ORCID: 0000-0001-8273-9527

EDUCATION

City University of Hong Kong (CityU)

2019 - 2023

Ph.D. in Computer Science; Supervisor: Prof. Junhui HOU (SMIEEE)

Research Interests: Unsupervised Learning, Cluster analysis, and Graph Structure Learning

GuangDong University of Technology (GDUT)

2012 - 2016 & 2016 - 2019

B.S. & M.S. in Computer Science

GPA: 3.7/4.0 & 3.8/4.0

AWARDS [SELECTED]

Postgraduate Studentship

2019 - 2023

CityU, HongKong

Institutional Research Tuition Scholarship

2021, 2022

CityU, HongKong

Outstanding Academic Performance Award

2021, 2023

CityU, HongKong

Outstanding Diploma Thesis Award

2019

GDUT, GuangDong

Outstanding Graduates

2016, 2019

Highest honor in GDUT (Top 0.1%), GuangDong

PUBLICATIONS & PRE-PRINT

- **Z. Peng**, H. Liu, Y. Jia, and J. Hou, *EGRC-Net: Embedding-induced Graph Refinement Clustering Network*, IEEE Transactions on Image Processing (**IEEE T-IP**), 2023. *IF: 10.6, JCR Q1, Top Journal.*
- **Z. Peng**, H. Liu, Y. Jia, and J. Hou, *Adaptive Attribute and Structure Subspace Clustering Network*, IEEE Transactions on Image Processing (**IEEE T-IP**), vol. 31, pp. 3430-3439, 2022. *IF: 10.6, JCR Q1, Top Journal.*
- **Z. Peng**, H. Liu, Y. Jia, and J. Hou, *Deep Attention-guided Graph Clustering with Dual Self-supervision*. IEEE Transactions on Circuits and Systems for Video Technology (**IEEE T-CSVT**), 2022. *IF: 8.4, JCR Q1, Top Journal.*
- **Z. Peng**, Y. Jia, H. Liu, J. Hou, and Q. Zhang, *Maximum Entropy Subspace Clustering Network*, IEEE Transactions on Circuits and Systems for Video Technology (**IEEE T-CSVT**), vol. 32, no. 4, pp. 2199 - 2210, 2022. *IF: 8.4, JCR Q1, Top Journal.*
- **Z. Peng**, Y. Jia, and J. Hou, *Non-Negative Transfer Learning With Consistent Inter-Domain Distribution*, IEEE Signal Processing Letters (**IEEE SPL**), 2020. *IF: 3.9, JCR Q2.*
- **Z. Peng**, W. Zhang, N. Han, X. Fang, P. Kang, L. Teng, *Active Transfer Learning*, IEEE Transactions on Circuits and Systems for Video Technology (**IEEE T-CSVT**), 2019. *IF: 8.4, JCR Q1, Top Journal.*
- **Z. Peng**, H. Liu, Y. Jia, and J. Hou, *Attention-driven Graph Clustering Network*, in Proc. ACM International Conference on Multimedia (**ACM MM**), 2021, pp. 935-943. *CCF A, Top Conference.*
- M. He, Y. Jia, **Z. Peng**, and X. Geng, *Adaptive Graph Feedback Clustering Network*, Web Conference (WWW). *Under review.*

PATENTS

- **Zhihao PENG**, first student inventor, "*Pedestrian re-identification method, device and readable storage medium*", China Invention Patent, May 10, 2022, (*Granted*) **CN109492610B**.
- **Zhihao PENG**, first inventor, "*Method and device for removing mask from phase spectrum*", China Invention Patent, September 11, 2020, (*Granted*) **CN107424616B**.

SKILLS

Dialect Language:
Programming languages:
Tools and Packages:

English/ Mandarin/ Cantonese/ Chaoshan
Python/ C/ MATLAB
PyTorch/ TensorFlow/ TMUX/ ChatGPT

EXPERIENCES

Sun Yat-sen University, Guangzhou, CHINA

2023

Young Scholar, The 14th International Young Scholars Forum of Sun Yat-sen University ([📄 link](#))

Nipissing University, Ontario, CANADA

2018 - 2019

Visiting Researcher **Advisor:** Prof. Haibin Zhu, Person re-identification, adaptive collaboration

China Computer Federation (CCF), GuangDong, CHINA

2017 - 2018

Student Branch Vice Chairman, Established the first CCF student branch in South China ([📄 link](#))

Shibaura Institute of Technology, Tokyo, JAPAN

2017

Completed the program, i.e., "Experience Japanese Advanced Technology from SIT Laboratories"

PROJECT

Robust weakly supervised subspace clustering for high-dimensional data

2022 - 2025

Participation. Youth Science Fund Project (62106044).

Research on transfer learning theory and method based on robust representation.

2018 - 2021

Participation. General project of the National Natural Science Foundation of China (61772141).

TEACHING ASSISTANT

CS2115, Computer Organization
CS2116, Computer Systems
CS4182/CS5182, Computer Graphics

REVIEWER OF INTERNATIONAL CONFERENCES

AAAI 2023/24

2022, 2023

AAAI Conference on Artificial Intelligence

ICASSP 2023/24

2023, 2024

IEEE International Conference on Acoustics, Speech and Signal Processing

ICME 2021/22/23

2021 - 2023

IEEE International Conference on Multimedia and Expo

VCIP 2021/22/23

2021 - 2023

IEEE Visual Communications and Image Processing

ACM MM 2021/22

2021 - 2022

28/29th ACM International Conference on Multimedia

REVIEWER OF INTERNATIONAL JOURNALS

TIP

IEEE Transactions on Image Processing

TCSVT

IEEE Transactions on Circuits and Systems for Video Technology

JAS

IEEE/CAA Journal of Automatica Sinica

PR

Pattern Recognition