

# Zhihao PENG

☎ (+852) 57499654

✉ zhihapeng3-c@my.cityu.edu.hk

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

🐦 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, *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.*
- **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**). *1 Minor, 2 Major.*
- M. He, Y. Jia, **Z. Peng**, and X. Geng, *Adaptive Graph Feedback Clustering Network*, AAAI Conference on Artificial Intelligence (AAAI). *Under review.*

## PATENTS

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- **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

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*Dialect Language:*  
*Programming languages:*  
*Tools and Packages:*

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

## EXPERIENCES

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### 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

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### 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

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

## REVIEWER OF INTERNATIONAL CONFERENCES

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### AAAI 2023/24

2022, 2023

*AAAI Conference on Artificial Intelligence*

### ICME 2021/22/23

2021 - 2023

*IEEE International Conference on Multimedia and Expo*

### ICASSP 2023

2023

*IEEE International Conference on Acoustics, Speech and Signal Processing*

### 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

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### 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*