SICHAO FU

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College of Information and Control Engineering, China University of Petroleum (East China)
Address: ♯ 66 Changjiang West Road, Huangdao District, Qingdao 266580, China

EDUCATION

China University of Petroleum(East China), Qingdao *Sep. 2017– Jul. 2020*
M. Eng. in Electronics & Communication Engineering
Supervisor Professor Weifeng Liu

Linyi University, Linyi *Sep. 2013– Jul. 2017*
B. Eng. in Communication Engineering

RESEARCH INTERESTS

Machine learning, Pattern recognition, Deep learning, Graph convolution networks (GCN).

POSTGRADUATE HONORS AND AWARDS

Third Prize of Academic Scholarship, 2017
Second Prize in "Number Building Cup" National Undergraduate Mathematical Modeling Challenge Competition, 2017
Second Prize in National Undergraduate "Internet Plus" Innovation Competition, 2017
First Prize in Qingdao Graduate Student Electronic Design Competition , 2017
Outstanding Leadership of the 15th Graduate Student "Bo Cui Festival" Science and Technology Academic Activity, 2017
Excellent Activist of the 15th Graduate Student "Bo Cui Festival" Science and Technology Academic Activity, 2017
Certificate of Computer and Software Professional Qualification, 2018
First Prize of Academic Scholarship, 2019

PUBLICATIONS

Journal papers

- **Sichao Fu**, Weifeng Liu, Li Shuying, Yicong Zhou. A Two-Order Graph Convolutional Networks for Semi-Supervised Classification. IET Image Processing, IET. Impact factor: 1.401, Accepted. [Webpage]
- **Sichao Fu**, Weifeng Liu, Yicong Zhou, Liqiang Nie. HpLapGCN: Hypergraph p-Laplacian Graph Convolutional Networks. Neurocomputing, Elsevier. Impact factor: 3.241, Under Review.
- **Sichao Fu**, Weifeng Liu, Dapeng Tao, Yicong Zhou. HesGCN: Hessian Graph Convolutional Networks for Semi-Supervised Classification. IEEE Transactions on Cybernetics, IEEE. Impact factor: 8.803, Under Review.
- **Sichao Fu**, Weifeng Liu, Dapeng Tao, Yicong Zhou. p - Laplacian Graph Convolutional Networks for Semi-Supervised Classification. IEEE Transactions on Knowledge and Data Engineering, IEEE. Impact factor: 2.775, Under Review.

Conference papers

- **Sichao Fu**, Xinghao Yang, Weifeng Liu. The Comparison of Different Graph Convolutional Neural Networks for Image Recognition. The 10th International Conference on Internet Multimedia Computing and Service (ICIMCS 2018). August 17-19, 2018, Nanjing, China. Accepted. [Webpage]

- **Sichao Fu**, Weifeng Liu,Zheng-Jun Zha. DyGCN: Dynamic Graph Convolutional Networks. 2019 IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC 2019). October 6-9, 2019, Nicolaus Hotel, Bari Italy. Under Review.
- **Sichao Fu**, Weifeng Liu,Zheng-Jun Zha. Dynamic Graph Convolutional Networks by Manifold Regularization. The 28th International Joint Conference on Artificial Intelligence Workshops (IJCAIW 2019). August 10-16, 2019, Macao, China. Under Review.

CHINA PATENTS

Semi-supervised classification method based on p-Laplacian graph convolutional neural networks
First Applicant

- Patent for Invention
- Open Number: CN109583519A
- Open Date: 5 April, 2019

Semi-supervised classification method based on hypergraph p-Laplacian graph convolutional neural networks
First Applicant

- Patent for Invention
- Open Number: CN109766935A
- Open Date: 17 May, 2019

Wireless charging coil based on orthogonal structure for electric vehicle
Third Applicant

- Patent for Utility Model

PROJECT

Image annotation based on multiview depth sparse coding and manifold regularization *Jan. 2017 - Dec. 2020*
Project Member

- Funded by: National Natural Science Foundation of China.
- Grant Number: 61671480.

Theory and method with large-scale data deep structure learning *Jan. 2018 - Dec. 2020*
Project Member

- Funded by: Independent Innovation Research Project, China University of Petroleum (East China).
- Grant Number: 18CX07011A.

Person re-identification algorithms based on metric learning *May 2018 - May 2019*
Project Member

- Funded by: Graduate Student Innovation Project, China University of Petroleum (East China).
- Grant Number: YCX2018064.

Data representation learning theory and method based on graph neural networks *Jan. 2019 - Dec. 2020*
Main Project Member

- Funded by: Key Laboratory of Complex Systems Modeling and Simulation, Ministry of Education.

Semi-supervised classification method based on graph neural networks *May. 2019 - May. 2020*
Project Leader

· Funded by: Graduate Student Innovation Project, China University of Petroleum (East China).
· Grant Number: YCX2019080.

ACADEMIC ACTIVITIES

Ad-hoc reviewer	"IEEE Transactions on Circuits and Systems for Video Technology" "IEEE Access" "Information Sciences" "Neurocomputing" "Pattern Recognition" "Artificial Intelligence in Medicine " "Neural Processing Letters" "Multimedia Tools and Applications " "Pattern Analysis and Applications " "International Joint Conference on Artificial Intelligence (IJCAI 2019)" "International Conference on Multimedia and Expo (ICME 2019)" "International Conference on Systems, Man, and Cybernetics (SMC 2019)" "Chinese Conference on Pattern Recognition and Computer Vision (PRCV 2019)" "International Conference on Machine Learning, Optimization, and Data Science (LOD 2019)"
Attended conference	"International Conference on Internet Multimedia Computing and Service (ICIMCS 2018)"