

SICHAO FU

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College of Control Science and Engineering, China University of Petroleum (East China)

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EDUCATION

China University of Petroleum (East China), Qingdao, Shandong	Sep. 2017– Jun. 2020
M. Eng. in Electronics and Communication Engineering	
Supervisor Professor Weifeng Liu	
Linyi University, Linyi, Shandong	Sep. 2013– Jun. 2017
B. Eng. in Communication Engineering	

RESEARCH INTERESTS

Machine learning, Pattern recognition, Deep learning, Graph convolution networks.

POSTGRADUATE HONORS AND AWARDS

- Academic Star of College of Oceanography and Space Informatics of China University of Petroleum East China), 2020
- Outstanding Masters Thesis of China University of Petroleum (East China), 2020
- Outstanding Graduates of Shandong Province, 2020
- First Prize of Professional Degree Postgraduate Famous Achievement Award of Shandong Province, 2019
- Outstanding Students of China University of Petroleum (East China), 2019
- Ten Academic Elites Award Nomination of China University of Petroleum (East China), 2019
- Professional Degree Postgraduate Famous Achievement Award of China University of Petroleum (East China) , 2019
- National Graduate Fellowship, 2019
- Second Prize of the 13th “Siemens Cup” China Intelligent Manufacturing Challenge (the Second Division of North China), 2019
- First Prize of Academic Scholarship, 2019
- Certificate of Computer and Software Professional Qualification, 2018
- Excellent Activist of the 15th Graduate Student “Bo Cui Festival” Science and Technology Academic Activity, 2017
- Outstanding Leadership of the 15th Graduate Student “Bo Cui Festival” Science and Technology Academic Activity, 2017
- First Prize in Qingdao Graduate Student Electronic Design Competition , 2017
- Second Prize in National Undergraduate “Internet Plus” Innovation Competition, 2017
- Second Prize in “Number Building Cup” National Undergraduate Mathematical Modeling Challenge Competition, 2017
- Third Prize of Academic Scholarship, 2017

PUBLICATIONS

Journal papers

1. Sichao Fu, Weifeng Liu, Yicong Zhou and Liqiang Nie, “HpLapGCN: Hypergraph p-Laplacian Graph Convolutional Networks”, *Neurocomputing*, vol. 362, pp. 166-174, 2019. (JCR: Q1; Impact factor: 4.438; CCF C)
2. Sichao Fu, Weifeng Liu, Shuying Li and Yicong Zhou, “Two-Order Graph Convolutional Networks for Semi-Supervised Classification”, *IET Image Processing*, vol. 13, no. 14, pp. 2763-2771, 2019. (JCR: Q3; Impact factor: 1.995; CCF C)
3. Sichao Fu, Weifeng Liu, Dapeng Tao, Yicong Zhou and Liqiang Nie, “HesGCN: Hessian Graph Convolutional Networks for Semi-Supervised Classification”, *Information Sciences*, vol. 514, pp. 484-498, 2020. (JCR: Q1; Impact factor: 5.91; CCF B)
4. Weifeng Liu (supervisor), Sichao Fu, Yicong Zhou, Zheng-Jun Zha and Liqiang Nie, “Human Activity Recognition by Manifold Regularization Based Dynamic Graph Convolutional Networks”, *Neurocomputing*, accepted, 2020. (JCR: Q1; Impact factor: 4.438; CCF C)
5. Sichao Fu, Weifeng Liu, Yicong Zhou and Dapeng Tao, “Example-Feature Graph Convolutional Networks for Semi-supervised Classification”, *IEEE Transactions on Neural Networks and Learning Systems*, Under Review. (JCR: Q1; Impact factor: 8.793; CCF B)
6. Sichao Fu, Weifeng Liu, Kai Zhang, Yicong Zhou and Dapeng Tao, “Semi-supervised Learning Using Graph p -Laplacian Convolutional Networks”, *Information Sciences*, Under Review. (JCR: Q1; Impact factor: 5.91; CCF B)
7. Sichao Fu, Weifeng Liu, Weili Guan, Yicong Zhou, Dapeng Tao and Changsheng Xu, “Dynamic Graph Learning Convolutional Networks for Semi-supervised Classification”, *ACM Transactions on Multimedia Computing, Communications, and Applications*, Under Thrid Review. (JCR: Q1; Impact factor: 3.275; CCF B)

Conference papers

8. Sichao Fu, Xinghao Yang and Weifeng Liu, “The Comparison of Different Graph Convolutional Neural Networks for Image Recognition”, *2018 International Conference on Internet Multimedia Computing and Service (ICIMCS 2018)*, Nanjing, China, 2018.
9. Sichao Fu, Weifeng Liu, Yicong Zhou, Zheng-Jun Zha and Liqiang Nie, “Dynamic Graph Convolutional Networks by Manifold Regularization”, *2019 IJCAI Workshop on Deep Learning for Human Activity Recognition (IJCAIW 2019)*, Macao, China, 2019.

Book Chapters

10. Sichao Fu and Weifeng Liu, “Recent Advances of Manifold based Graph Convolutional Networks for Remote Sensing Images Recognition” in *Generalization with Deep Learning: For Improvement on Sensing Capability*, World Scientific, Book edited by: Dr. Li Xiaoli, Dr. Chen Zhenghua and Dr. Wu Min, accepted, 2020.

CHINA PATENTS

1. **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

2. **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

PROJECT

1. **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.
2. **Research on theory and method of 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.
3. **Research on 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.
4. **Research on data representation learning theory and method based on graph neural networks** Jan. 2019 - Dec. 2020
Student First Project Leader
 - Funded by: Key Laboratory of Complex Systems Modeling and Simulation, Ministry of Education.
5. **Research on 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.
6. **Research on the efficient local geometry preserving methods of graph representation learning and its modeling analysis** Jan. 2020 - Dec. 2021
Student First Project Leader
 - Funded by: Open Project Program of the National Laboratory of Pattern Recognition (NLPR).
 - Grant Number: 202000009.

ACADEMIC ACTIVITIES

Ad-hoc reviewer

“IEEE Transactions on Neural Networks and Learning Systems”
“IEEE Transactions on Cybernetics”
“IEEE Transactions on Circuits and Systems for Video Technology”
“IEEE Transactions on Geoscience and Remote Sensing”
“IEEE Access”
“Neural Networks”
“Information Sciences”
“Neurocomputing”
“Pattern Recognition”
“Artificial Intelligence in Medicine ”
“Neural Processing Letters”
“Multimedia Tools and Applications ”
“Pattern Analysis and Applications ”
“Journal of Applied Remote Sensing ”
“IET Computer Vision ”
“Journal of Healthcare Engineering ”
“International Joint Conference on Artificial Intelligence”
“International Conference on Information and Knowledge Managemen”
“International Conference on Multimedia and Expo”
“International Conference on Systems, Man, and Cybernetics”
“International Conference on Machine Learning, Optimization, and Data Science”
“Asian Conference on Pattern Recognition”
“Chinese Conference on Pattern Recognition and Computer Vision”
“ACM International Conference on Multimedia”

Attended conference

“2018 International Conference on Internet Multimedia Computing and Service”
“2019 International Joint Conference on Artificial Intelligence”