SICHAO FU

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College of Control Science and 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, Shandong Sep. 2017– Jul. 2020
M. Eng. in Electronics and Communication Engineering
Supervisor Professor Weifeng Liu

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

RESEARCH INTERESTS

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

POSTGRADUATE HONORS AND AWARDS

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 ElitesAward 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: 4.072; 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: 2.074; 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: 5.524; 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*, in press, 2019. (JCR: Q1; Impact factor: 4.072; CCF C)
5. Sichao Fu, Weifeng Liu, Dapeng Tao, Yicong Zhou and Liqiang Nie, "Semi-supervised Learning Using Graph p-Laplacian Convolutional Networks", *Knowledge-Based Systems*, Under Review. (JCR: Q1; Impact factor: 5.101; CCF B)
6. Sichao Fu, Weifeng Liu, Yicong Zhou and Liqiang Nie, "Example-Feature Graph Convolutional Networks for Semi-supervised Classification", *IEEE Transactions on Neural Networks and Learning Systems*, Under Review. (JCR: Q1; Impact factor: 11.683; CCF B)
7. Sichao Fu and Weifeng Liu, "Dynamic Graph Learning Convolutional Networks for Semi-supervised Classification", *Information Processing and Management*, Under Review. (JCR: Q1; Impact factor: 3.892; 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, Article number: 3240915, 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, in press, 2019.

Book Chapters

10. Sichao Fu and Weifeng Liu, "Research on Graph Convolutional Networks for Remote Sensing Images Recognition" in *Generalization with Deep Learning: For Improvement on Sensing Capability, World Scientific*, in press, 2019.

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 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 "
	"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"
Attended conference	"2018 International Conference on Internet Multimedia Computing and Service"
	"2019 International Joint Conference on Artificial Intelligence"