Lin Zhang

CONTACT INFORMATION

1400 Washington Ave
Albany, NY
United States, 12222

518-596-3884
lzhang22@albany.edu
lin-zhang-alpha.github.io

RESEARCH INTERESTS

Data Mining, machine learning and optimization.

EDUCATION

State University of New York at Albany August 2014 - Present

Ph.D. Candidate at Computer Science department

- Advisor: Professor. Petko Bogdanov

Anhui University, Hefei, China August 2008 - July 2012

B.E., Measurement and Control Technology and Instrumentation

PUBLICATIONS

Lin Zhang, Petko Bogdanov. Period estimation from incomplete signals. IEEE Transactions on Signal Processing, 2019. **Under review.**

Lin Zhang, Wenyu Zhang, Nachuan Chengwang, Maxwell J. McNeil, David S. Matteson, Petko Bogdanov. AURORA: A Unified fRamework fOR Anomalydetection on multivariate time series. The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD), 2020. **Under review.**

Alexander Gorovits, **Lin Zhang**, Ekta Gujral, Evangelos Papalexakis and Petko Bogdanov. [A community detection method * Name masked due to double blind review policy]. The Web Conference (WWW), 2020. **Under review.**

Lin Zhang, Alexander Gorovits, Wenyu Zhang, Petko Bogdanov. Learning period from incomplete multivariate time Series. SIAM International Conference on Data Mining (SDM), 2020. **Under review.**

Lin Zhang, Petko Bogdanov. Unsupervised instance and Feature Selection for network data. SIAM International Conference on Data Mining (SDM), 2020. **Under review.**

Wei Xiong, **Lin Zhang**, Maxwell J. McNei, Petko Bogdanov, Mariya Zheleva. Exploiting Self-Similarity for Under-Determined MIMO Modulation Recognition. IEEE International Conference on Computer Communications (INFOCOM), 2020. (Acceptance rate: 19.8%)

Lin Zhang, Alexander Gorovits, Petko Bogdanov. PERCeIDs: Periodic Community Detection. IEEE International Conference on Data Mining (ICDM), 2019. (Full paper; Acceptance rate: 9.08%).

Lin Zhang, Petko Bogdanov. DSL: Discriminative Subgraph Learning via Sparse Self-Representation. SIAM International Conference on Data Mining (SDM), 2019. (Acceptance rate: 22.7%).

Sheldon L. Reeves , Kelsey E. Fleming, **Lin Zhang**, Annalisa Scimemi. M-Track: a new software for automated detection of grooming trajectories in mice. PLoS Comput Biol 12(9). 2016. (Impact factor 4.428).

Dong Liang, Zhao Liang, Wenxia Bao, **Lin Zhang**, Cunshan Guo. Image Denoising Algorithm Based on Non-local Regularized Sparse Representation. Journal of systems engineering and electronics, 2013, 35(5):1104-1109.

Xiaoning Chen, **Lin Zhang**, Jianguo Liu, Tianshu Zhang, Guizhou Yu, Wei Fu. Research and Implement of the Automatic Spectrum Collecting System Based on the Sun Tracking. Acta Energiae Solaris Sinica, 2013, 34 (5), pp. 800-804.

Patents

Xiaoning Chen, **Lin Zhang**, Wei Fu. On-board solar spectrum collection system. Application number: 201110022048. National patent number: CN102156098A, 2011.

Research Experience

Data Mining and Management lab (DMM), University at Albany - SUNY

Research Assistant July 2018 - present

My research focuses on subnetwork mining and community detection from large network, and time series analysis. Additionally, I have some responsibilities including assisting with proposal writing and mentoring undergraduate and junior graduate students. Advisor: Professor. Petko Bogdanov

Key Laboratory of Intelligent Computing and Signal Processing, Ministry of Education, China

Research Assistant Aug 2010 - May 2013

My research focused on image denosing, face recognition, and signal processing. Advisor: Professor. Sui Wei and Professor. Xiaoning Chen

Teaching Assistant

ICSI671 Computer Vision/ ICSI 531 Data Mining: Graduate level course (Spring 2016, Spring 2015)
ICSI404 Computer Organization/ ICSI310 Data Structures: Undergraduate level course (Fall 2014, Fall 2015, Spring 2016)

Professional Service

Student Assistant for Computer Vision for Microscopy Image Analysis (CVMI) workshop at Computer Vision and Pattern Recognition Conference (CVPR), in 2016 and 2018.

Reviewer: Conferences- KDD(2019), CIKM(2019), WSDM(2019, 2020), SDM(2019, 2020), ICDM(2019), DSAA(2019), CVPR(2015, 2016, 2017), ICCV(2015, 2016, 2017); Journals- TKDE(2019)

Programming Languages

MATLAB, Python, C. (Please find code samples on my github page).

Reference

Professor. Petko Bogdanov(pbogdanov@albany.edu)
Professor. Annalisa Scimemi (scimemia@gmail.com)
Professor. Feng Chen (feng.chen@utdallas.edu)