

KAIXIANG LIN

Github & Google Scholar & Homepage

Email: linkaixi@msu.edu

EDUCATION

Michigan State University

Aug. 2015 - present

Ph.D. student in Computer Science & Engineering

Advisor: Dr. Jiayu Zhou

University of Science and Technology of China

Sept. 2010 - July 2014

B.E. in Electronic Information Engineering

PROFESSIONAL EXPERIENCE

Research Intern at **Didi AI Labs, Beijing**

May. 2017 - Aug. 2017

- Designed and implemented constrained multi-armed bandit algorithm for a multi-channel marketing project. Return on Investment (ROI) increased over 23% with the same scale of investment. This algorithm is currently running online. [**Press Coverage by Didi Chuxing**]

SELECTED PUBLICATIONS

Kaixiang Lin, Renyu Zhao, Zhe Xu, Jiayu Zhou. “Efficient Large-Scale Fleet Management via Multi-Agent Deep Reinforcement Learning”, the 24th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2018. [**Research track Oral**][**Acceptance rate: 10.9%**]

Fengyi Tang, **Kaixiang Lin**, Ikechukwu Uchendu, Hiroko H Dodge, Jiayu Zhou “Improving Mild Cognitive Impairment Prediction via Reinforcement Learning and Dialogue Simulation”, Preprint, 2018.

Liyang Xie, **Kaixiang Lin**, Shu Wang, Fei Wang, Jiayu Zhou “Differentially Private Generative Adversarial Network”, Preprint, 2018.

Kaixiang Lin, Shu Wang, Jiayu Zhou. “Collaborative Deep Reinforcement Learning”, Preprint, 2017.

Inci M. Baytas, **Kaixiang Lin**, Fei Wang, Anil K. Jain and Jiayu Zhou. “PhenoTree: Interactive Visual Analytics for Hierarchical Phenotyping from Large-Scale Electronic Health Records”, IEEE Transaction on Multimedia, 2016.

Kaixiang Lin and Jiayu Zhou. “Interactive Multi-Task Relationship Learning”, IEEE International Conference on Data Mining (ICDM), 2016.[**Oral**][**Acceptance rate: 8.5%**]

Inci M. Baytas, **Kaixiang Lin**, Fei Wang, Anil K. Jain and Jiayu Zhou. “Stochastic Convex Sparse Principal Component Analysis” EURASIP Journal on Bioinformatics and Systems Biology, 2016.

Kaixiang Lin, Jianpeng Xu, Inci M. Baytas, Shuiwang Ji and Jiayu Zhou. “Multi-Task Feature Interaction Learning”, the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2016. [**Research track**][**Acceptance rate: 18.1%**]

Jianpeng Xu, **Kaixiang Lin**, Pang-Ning Tan and Jiayu Zhou. “Synergies that Matter: Efficient Interaction Selection via Sparse Factorization Machine”, SIAM International Conference on Data Mining (SDM) 2016.

HONORS AND AWARDS

Conference Travel Grant: SDM2016, KDD2016, SDM2017, SDM2018, KDD2018

Best Poster Award, Doctoral Forum, SDM2017

SERVICES

Program Committee (PC) member:

- 2018 IEEE International Conference on Big Data (IEEE BigData 2018)

Journal Reviewer:

- International Journal of Machine Learning and Cybernetics (JMLC)
- Neurocomputing
- Pattern Recognition
- Data Mining and Knowledge Discovery
- Transactions on Knowledge Discovery from Data (TKDD)

Conference external reviewer:

- The IEEE International Conference on Data Mining (ICDM), 2017, 2018.