

Junxiang Wang

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EDUCATION

Department of Computer Science, Emory University, Atlanta, GA, USA 2020-present

Ph.D. in Computer Science

Department of Information Science and Technology, George Mason University 2017-2020

M.S. in Applied Information Technology GPA 3.98/4.0

Department of Computer Science, East China Normal University 2008-2012

B.S in Computer Science GPA 3.4/4.0

PUBLICATIONS

Conference Papers

Junxiang Wang, Fuxun Yu, Xiang Chen, and Liang Zhao. ADMM for Efficient Deep Learning with Global Convergence. in Proceedings of the 25th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2019), research track (acceptance rate: 14.2%), Alaska, USA, Aug 2019.

Junxiang Wang and Liang Zhao. Multi-instance Domain Adaptation for Vaccine Adverse Event Detection. 27th International World Wide Web Conference (WWW 2018), (acceptance rate: 14.8%), Lyon, FR, Apr 2018.

Junxiang Wang, Zheng Chai, Yue Cheng, Liang Zhao. Toward Model Parallelism for Deep Neural Network based on Gradient-free ADMM Framework. in Proceedings of the IEEE International Conference on Data Mining (ICDM 2020), regular paper (acceptance rate: 9.8%), Sorrento, Italy, Nov 2020.

Junxiang Wang, Yuyang Gao, Andreas Zufle, Jingyuan Yang, and Liang Zhao. Incomplete Label Uncertainty Estimation for Petition Victory Prediction with Dynamic Features. in Proceedings of the IEEE International Conference on Data Mining (ICDM 2018), regular paper (acceptance rate: 8.9%), Singapore, Dec 2018.

Liang Zhao, **Junxiang Wang**, and Xiaojie Guo. Distant-supervision of heterogeneous multitask learning for social event forecasting with multilingual indicators. Thirty-Second AAAI Conference on Artificial Intelligence (AAAI 2018), Oral presentation (acceptance rate: 11.0%), pp. 4498-4505, New Orleans, US, Feb 2018.

Junxiang Wang, Liang Zhao, and Yanfang Ye. Semi-supervised Multi-instance Interpretable Models for Flu Shot Adverse Event Detection. 2018 IEEE International Conference on Big Data (BigData 2018) (acceptance rate: 18.9%), Seattle, USA, Dec 2018.

Junxiang Wang, Zheng Chai, Yue Cheng, Liang Zhao. Tunable Subnetwork Splitting for Model-parallelism of Neural Network Training. ICML 2020 Workshop on Beyond First-Order Methods in ML systems.

Junxiang Wang and Liang Zhao. The Application of Multi-block ADMM on Isotonic Regression Problems. 11th Workshop on Optimization for Machine Learning (OPT 2019), co-located with NeurIPS 2019.

Journal papers

Liang Zhao, **Junxiang Wang**, Feng Chen, Chang-Tien Lu and Naren Ramakrishnan. "Spatial Event Forecasting in Social Media with Geographically Hierarchical Regularization". Proceedings of the IEEE (impact factor: 9.237), vol. 105, no. 10, pp. 1953-1970, Oct. 2017.

Junxiang Wang, Liang Zhao, Yanfang Ye, and Yuji Zhang. Adverse event detection by integrating Twitter data and VAERS. Journal of Biomedical Semantics, (impact factor: 1.845), 2018

Junxiang Wang, Weiming Yu, Zhibin Chen, Hengda Li, Zhenran Jiang. Predicting Drug-Target Interactions of Nuclear Receptors Based on Molecular Descriptors Information. Letters in Drug Design & Discovery 10 (10), 989-994, 2013.

Weiming Yu, Yan Yan, Qing Liu, **Junxiang Wang** and Zhenran Jiang. Predicting drug-target interaction networks of human diseases based on multiple feature information. Pharmacogenomics 14 (14), 1701-1707, 2013.

Zhenran Jiang, Ran Tao, Lei Du, Weiming Yu and **Junxiang Wang**. Using Network-Based Approaches to Predict Ligands of Orphan Nuclear Receptors. Current Bioinformatics 7 (4), 411-414, 2012.

Ran Tao, Zhenran Jiang, Weiming Yu and **Junxiang Wang**. Predicting Coupling Specificity of GPCRs Based on the Optimization of the Coupling Regions. Combinatorial chemistry & high throughput screening 15 (9), 770-774, 2012.

Weiming Yu, Zhengyan Jiang, **Junxiang Wang** and Ran Tao. Using feature selection technique for drug-target interaction networks prediction. Current medicinal chemistry 18 (36), 5687-5693, 2011.

Preprints

Junxiang Wang and Liang Zhao. Nonconvex Generalization of ADMM for Nonlinear Equality Constrained Problems. arXiv:1705.03412.

Junxiang Wang, Liang Zhao and Lingfei Wu. Multi-convex Inequality-constrained Alternating Direction Method of Multipliers.

Junxiang Wang, Liang Zhao, Yanfang Ye and Houman Homayoun. Interpretability Evaluation Framework for Deep Neural Networks.

Junxiang Wang, Fuxun Yu, Xiang Chen, and Liang Zhao. Accelerated Gradient-free Neural Network Training by Multi-convex Alternating Optimization.

Johnny Torres, Guangji Bai, **Junxiang Wang**, Liang Zhao, Carmen Vaca, Cristina Abad. Sign-regularized Multi-task Learning.

COURSE INFORMATION

Course ID	Course Name	Course Grade
CS580	Introduction to Artificial Intelligence	A
INFS774	Enterprise Architecture	A
AIT582	MetaData Use in Complex Big Data	A+
CS583	Analysis of Algorithms I	A+
AIT602	Introduction to Research in Applied IT	A
AIT664	Information: Representation, Processing, Visualization	A+
AIT734	Advanced Web Analytics Using Semantic	A
AIT524	Database Management Systems	A+
AIT624	Knowledge Mining from Big-Data	A+
AIT716	Human Computer Interaction	A-
AIT512	Algorithm/Data Structure Essentials	A+
AIT699	Research Project	A+
AIT724	Data Analytics in Social Media	A
AIT542	Fundamentals of Computing Platform	A
OR750	Deep Learning for Predictive Analytics	A

HONORS AND AWARDS

Student Travel Award: KDD 2019, ICDM 2018

2011 Mathematical Contest in Modeling (MCM): Meritorious Winner; Team Leader

2010 National Mathematical Contest in Modeling: Second class; Team Member

Second-class scholarship 2009, East China Normal University, China.

SERVICE

Independent Reviewer: European Journal of Operational Research 2019.

External Reviewer: KDD 2018-2019, ICDM 2017-2018, SDM 2018, AMIA 2019, TKDE, TBD, Geoinformatica.

Working Experience

Database Developer, Shineenergy Information Technology Co., Ltd, Shanghai, China

2012-2015