

JUNKUN YUAN

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BIOGRAPHY

I am currently a third-year Ph.D. student at the College of Computer Science and Technology, Zhejiang University, supervised by Prof. Kun Kuang, Prof. Lanfen Lin, and Prof. Fei Wu.

EDUCATION

Zhejiang University, Hangzhou, China

Sep 2019 -

PhD student, Computer Science and Technology

Zhejiang University of Technology, Hangzhou, China

Sep 2015 - Jun 2019

Bachelor of Engineering, Automation

RESEARCH INTERESTS

I am mainly focusing on improving the generalization and stability of machine learning systems in the uncertain real world. My current research interests include domain generalization, domain adaptation, and causal inference.

PUBLICATIONS

1. Learning Decomposed Representations for Treatment Effect Estimation.

Anpeng Wu[#], **Junkun Yuan**[#], Kun Kuang^{*}, Bo Li, Pan Zhou, Jianrong Tao, Qiang Zhu, Yueting Zhuang, Fei Wu.

IEEE Transactions on Knowledge and Data Engineering (TKDE), 2022

2. Auto IV: Counterfactual Prediction via Automatic Instrumental Variable Decomposition.

Junkun Yuan[#], Anpeng Wu[#], Kun Kuang^{*}, Bo Li, Runze Wu, Fei Wu, Lanfen Lin.

ACM Transactions on Knowledge Discovery from Data (TKDD), 2022

3. Attention-based Cross-Layer Domain Alignment for Unsupervised Domain Adaptation.

Xu Ma, **Junkun Yuan**, Yen-wei Chen, Ruofeng Tong, Lanfen Lin^{*}.

Neurocomputing, 2022

4. Collaborative Semantic Aggregation and Calibration for Separated Domain Generalization.

Junkun Yuan, Xu Ma, Defang Chen, Kun Kuang^{*}, Fei Wu, Lanfen Lin.

arXiv preprint, 2021

5. Domain-Specific Bias Filtering for Single Labeled Domain Generalization.

Junkun Yuan[#], Xu Ma[#], Defang Chen, Kun Kuang^{*}, Fei Wu, Lanfen Lin.

arXiv preprint, 2021

6. Learning Domain-Invariant Relationship with Instrumental Variable for Domain Generalization.

Junkun Yuan, Xu Ma, Kun Kuang^{*}, Ruoxuan Xiong, Mingming Gong, Lanfen Lin.

arXiv preprint, 2021

7. Subgraph Networks with Application to Structural Feature Space Expansion.

Qi Xuan^{*}, Jinhuan Wang, Minghao Zhao, **Junkun Yuan**, Chenbo Fu, Zhongyuan Ruan^{*}, Guanrong Chen.

IEEE Transactions on Knowledge and Data Engineering (TKDE), 2021

8. **Black-box Adversarial Attacks Against Deep Learning Based Malware Binaries Detection with GAN.**

Junkun Yuan, Shaofang Zhou, Lanfen Lin*, Feng Wang, Jia Cui.

European Conference on Artificial Intelligence (ECAI), 2020

9. **CNN-based DGA Detection with High Coverage.**

Shaofang Zhou, Lanfen Lin*, **Junkun Yuan**, Feng Wang, Zhaoting Ling, Jia Cui.

IEEE International Conference on Intelligence and Security Informatics (ISI), 2019

PROFESSIONAL SERVICES

Conference reviewer: CVPR 2021 Workshop on Causality in Vision.

Help to review for conferences: ICML 2021; KDD 2021; ICCV 2021; CIKM 2021; NeurIPS 2021; AAAI 2021, 2022; CVPR 2021, 2022.

Help to review for journals: TNNLS 2022.