JUNKUN YUAN

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BIOGRAPHY

I am currently a fourth-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 open, dynamic, and uncertain real world. My current research interests include domain generalization/adaptation and causal inference.

PUBLICATIONS

(# Equal Contribution; * Corresponding Author.)

1. **Label-Efficient Domain Generalization via Collaborative Exploration and Generalization.**

   Junkun Yuan#, Xu Ma#, Defang Chen, Kun Kuang*, Fei Wu, Lanfen Lin.

   ACM Multimedia (MM), 2022

2. **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

3. **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

4. **Attention-based Cross-Layer Domain Alignment for Unsupervised Domain Adaptation.**

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

   Neurocomputing, 2022

5. **Collaborative Semantic Aggregation and Calibration for Separated Domain Generalization.**

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

   Under review

6. **Domain-Specific Bias Filtering for Single Labeled Domain Generalization.**

   Junkun Yuan#, Xu Ma#, Defang Chen, Kun Kuang*, Fei Wu, Lanfen Lin.

   Under review

7. **Learning Domain-Invariant Relationship with Instrumental Variable for Domain Generalization.**

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

   Under review

8. **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

9. **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

10. **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.