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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

PhD student, Computer Science and Technology   Sep. 2019 – Jun. 2024

Zhejiang University, Hangzhou, China

Advised by Professor Kun Kuang, Professor Lanfen Lin, and Professor Fei Wu

Bachelor of Engineering, Automation   Sep. 2015 – Jun. 2019

Zhejiang University of Technology, Hangzhou, China

Advised by Professor Qi Xuan

RESEARCH INTERESTS

I am focusing on improving the stability and generalization of machine learning in the open and non-stationary real world. My current research interests include domain adaptation/generalization and causal inference.

PUBLICATIONS

(# Equal Contribution; * Corresponding Author.)

2021

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

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

   arXiv preprint, 2021

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

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

   arXiv preprint, 2021

3. 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

4. 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**), 2021 (**CCF-B, IF: 2.713**)

5. 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 (**CCF-A, IF: 6.977**)

2020

6. Learning Decomposed Representation for Counterfactual Inference.

   Anpeng Wu, Kun Kuang*, **Junkun Yuan**, Bo Li, Pan Zhou, Jianrong Tao, Qiang Zhu, Yueting Zhuang, Fei Wu.

   arXiv preprint, 2020

7. 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 (**CCF-B**)

2019

8. 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

Reviewer: CVPR 2021 Workshop on Causality in Vision.

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