Enyan Dai

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RESEARCH INTERESTS

Data Mining, Graph Neural Network, Machine Learning Fairness, Robust Machine Learning, Explainable AI

EDUCATION

The Pennsylvania State University (PSU), State college, USA   Sept. 2019-present
- Ph.D. candidate in Information Sciences and Technology
- Advisor: Dr. Suhang Wang

Catholic University of Leuven (KU Leuven), Leuven, Belgium   Sept. 2017-Sept. 2018
- M.S. in Artificial Intelligence (Cum Laude)
- Thesis topic: Natural Language Processing in Clinical Domain
- Advisor: Dr. Marie-Francine Moens

University of Science and Technology of China (USTC), Hefei, China   Sept. 2012-Jul. 2016
- B.S. in Mechanical Engineering

PROFESSIONAL EXPERIENCE

Research Intern in Cloudwalk   **C**hina, 2017
- Computation acceleration of the Deep CNN Based Face Detection

Research Intern in IBM   USA, May 2021-present
- Supervisor: Dr. Jie Chen
- Power grid time series data modeling with graph neural network

PUBLICATIONS

Peer-Reiewed Papers：

[1] **Enyan Dai**, Charu Aggarwal, and Suhang Wang. " NRGNN: Learning a Label Noise-Resistant Graph Neural Network on Sparsely and Noisily Labeled Graphs." In Proceedings of 27th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD 2021)

[2] **Enyan Dai**, Kai Shu, Yiwei Sun, and Suhang Wang. " Labeled Data Generation with Inexact Supervision." In Proceedings of 27th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD 2021)

[3] **Enyan Dai,** and Suhang Wang. "Say No to the Discrimination: Learning Fair Graph Neural Networks with Limited Sensitive Attribute Information." In Proceedings of 14th ACM International Conference on Web Search and Data Mining (WSDM 2021).

[4] **Enyan Dai**, Yiwei Sun and Suhang Wang. "Ginger Cannot Cure Cancer: Battling Fake Health News with a Comprehensive Data Repository." In Proceedings of International AAAI Conference on Web and Social Media (ICWSM 2020)

[5] Shuaijun Chen, Zhen Han, **Enyan Dai**, Xu Jia, Ziluan Liu, Liu Xing, Xueyi Zou, Chunjing Xu, Jianzhuang Liu, and Qi Tian. "Unsupervised image super-resolution with an indirect supervised path." In Proceedings of IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW 2020)

[6] Chacha, Chen, Chieh-Yang Huang, Yaqi Hou, Yang Shi, **Enyan Dai**, and Jiaqi Wang. "TEST_POSITIVE at W-NUT 2020 Shared Task-3: Cross-task modeling." In Proceedings of the Sixth Workshop on Noisy User-generated Text (W-NUT 2020)

Preprints:

[1] **Enyan Dai**, and Suhang Wang. "Towards Self-explainable Graph Neural Network." Submitted to ACM International Conference on Information and Knowledge Management (CIKM 2021)

[2] **Enyan Dai**, Wei Jin, and Suhang Wang. "Towards Robust Graph Neural Network on Graphs with Sparse Labels." Submitted to ACM International Conference on Information and Knowledge Management (CIKM 2021)

[3] Tianxiang Zhao, **Enyan Dai**, Kai Shu, and Suhang Wang. "You Can Still Achieve Fairness Without Sensitive Attributes: Exploring Biases in Non-Sensitive Features." Submitted to ACM International Conference on Information and Knowledge Management (CIKM 2021)

[4] Xiaoyuan Cheng , Tianxiang Zhao, **Enyan Dai**, Suhang Wang, Yuqing Hu, Jianli Chen. "Times Series Forecasting for Urban Building Energy Consumption Based on Graph Convolutional Network." (arXiv)

SERVICE

- Reviewer & External Reviewer: KDD'20, KDD'21, The Web'21, SIGIR'21, WebSci'20, ASONAM'21, CIKM'21, Neural Computing'20, TKDD'20
- Teaching Assistant: DS 402: Trend in Data Science in 2020 fall
- Judge: Mathematical Contest in Modeling 2020

HONORS AND AWARDS

- WSDM Student Travel Award of 2021
- Outstanding Graduate Award in Qinghe City of 2018 and 2020
- Award in the RoboGame Robot Competition of 2014
- Scholarship for Outstanding Students in USTC of 2012, 2014 and 2015