



Xuhong WANG

Visiting PhD student



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Shanghai, China



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Interests

Anomaly Detection
Variational Inference
Graph Neural Networks
Graph Embedding
Data Mining
Self-supervised Learning
Encoder-Decoder Networks
Generative Adversarial Networks

Skills

Languages: Python, Matlab, C/C++,
SQL, Latex, etc.

Development: Linux, Git, Shell, etc.

Frameworks: PyTorch, Deep Graph
Library, PyTorch Geometric,
Networkx, Tensorflow, Intel Analytics
Zoo, Scikit-Learn, etc.

Strengths

Good understanding for AI papers
Rich experience in model coding
Innovator
Fast Learner
self-motivated

Hobbies

Basketball
Guitar
Flute
Hiking
Cooking

Education

since 2017 Shanghai Jiao Tong University, Shanghai, China Ph.D. candidate
Majoring in Automation GPA 3.82/4
Feb. 2017 Keio University, Tokyo, Japan Exchange Student
The international Campus
2013 - 2017 Sichuan University, Sichuan, China Bachelor
Majoring in Electronic Engineering (EE) average mark 84.5

Experience

Jul. 2019 - Deep learning software Intern Intel Asia-Pacific Co., Shanghai, China
Working on optimizing deep learning framework with PyTorch and *Intel Analytics Zoo*. I currently have two projects:
a. I used my adVAE model in unsupervised biopsy image recognition, which even exceeds the performance of supervised Resnet-50.
b. I applied Graph Neural Network (GNN) for discovering the rules of chemical reactivity. Since the number of classes are huge, label smoothing and AM-Softmax techniques is used beyond the plain GNN.
2018.7 - 11 Project Engineer China Southern Power Grid Co., Guangdong, China
Working on generalizing anomaly detection technology to the power grid. I built a real time online fault detection system using RPCA algorithm, SQL database and Flask web development framework.

Publications

- X. Wang* et al. "adVAE: A self-adversarial variational autoencoder with Gaussian anomaly prior knowledge for anomaly detection." Knowledge-based Systems, 2019. (IF=5.3, Available Online)
"The author has in-depth thinking on this topic and proposes a somewhat interesting method." — from the reviewer
- X. Wang* et al. "Partial Discharge Pattern Recognition with Data Augmentation based on Generative Adversarial Networks." Condition Monitoring and Diagnosis. IEEE, 2018.
- J. Huang, X. Wang*, S. Lin, H. Zhao, Z. Hu. "A Pull-type Braille Screen and its Components Reuse Method." (Patent, No. CN106781881A, July 2017)
- S. Lin, F. Xu, X. Wang*, W. Yang, L. Yu. "Efficient Spatial-Temporal Normalization of SAE Representation for Event Camera.", IEEE Robotics and Automation Letters. (Revision)
- Y. Du, Y. Liu, X. Wang*, J. Fang, G. Sheng, X. Jiang. "Predicting Weather-Related Failures in Distribution Systems Using Bayesian Neural Network.", IEEE Transactions on Smart Grid. (Under review)
- X. Wang* et al. "Deep Hypersphere Learning using Graph Convolutional Networks." (Under preparation)

Honers and Awards

Sept. 2019 PhD Academic Scholarship of Shanghai Jiao Tong Univ. (TOP 5%)
Oct. 2017 1st Prize, Outstanding Scholarship of Sichuan Univ. (TOP 5%)
Oct. 2016 2st Prize, Outstanding Scholarship of Sichuan Univ. (TOP 10%)
Oct. 2015 2st Prize, Outstanding Scholarship of Sichuan Univ. (TOP 10%)
Sept. 2016 2st Prize, China "Internet+" College Students Innovation and Entrepreneurship Competition
Oct. 2015 3st Prize, National Undergraduate Electronic Design Competition
May 2019 Excellent Postgraduate Student of Shanghai Jiao Tong Univ.
May 2018 Excellent Postgraduate Student of Shanghai Jiao Tong Univ.
Nov. 2015 Excellent Student Cadre of Sichuan Univ.
July 2015 Outstanding Academic Student Association Leader of Sichuan Univ.