Xing Wang

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Education Experience

University of Electronic Science and Technology of China (UESTC) 2018 – Present

Third-year undergraduate in Software Engineering,
GPA: **3.84/4.0**, rank: **12/92 (13%)**, CET-6 **500**.

Research Interests

Machine Learning, Learning on Graphs, Graph Neural Networks

Publication and Manuscripts

[Journal]

Smooth Representation based Semi-supervised Classification (in Chinese),
Xing Wang, Zhao Kang, Journal of Computer Science (2021).

Semi-supervised Classification based on Transformed Learning (in Chinese),
Xing Wang, Zhao Kang, Acta Automatica Sinica(*under review*)

School Experience

Trusted Cloud Computing and Big Data Key Laboratory, **UESTC** Jan. 2020 – Present

Research Assistant, Adviser: Prof. Zhao Kang
Research Area: Graph-based Semi-supervised Learning

- Understand Spectral Graph Theory and perform semi-supervised learning based on graph.
- Propose a smooth representation based semi-supervised classification model.
- Build a semi-supervised classification model based on transformed learning.

Natural Language Processing Lab, **Nanjing University** July. 2020 – Aug. 2020

Summer Camp
Research Area: Phishing Mail Detection

- Reproduce the model on *A Machine Learning approach towards Phishing Email Detection*.
- Understand the H-LSTMs and attention model, and reproduce the *TripleN* model.

Project Experience

Smooth Representation based Semi-supervised Classification Jan. 2020 – May. 2020

- **Intro**: We propose a smooth representation based semi-supervised classification methods. In particular, we applied a low-pass graph filter on the data to achieve a smooth representation. Furthermore, a unified framework which integrates graph construction and label propagation is proposed, so that they can be mutually improved and avoid the sub-optimal solution caused by low-quality graph.
- **Result**: Extensive experiments on face and subject data sets show that our proposed methods outperforms other state-of-the-art methods in most cases, which validates the significance of smooth representation.
- This work was received by CCDM 2020 as an oral and included by Journal of Computer Science.

Semi-supervised Classification based on Transformed Learning May. 2020 – Oct. 2020

- **Intro**: We propose a semi-supervised classification methods based on transformed learning (TLSSC). Our method seeks a representation (transformed coefficients) and performs graph learning and label propagation based on the learned representation.
- **Result**: Extensive experiments on face and subject data sets show that our proposed method outperforms other state-of-the-art methods in most cases.
- The manuscript has been accomplished and submitted to Acta Automatica Sinica.

PicGo (*Leader*) Dec. 2019 - Sep. 2020

- A smart tourism service for foreigners, which is commissioned in May 2020.
- A wechat mini apps, which can provide food identification and description based on photographs.
- Contributions: Requirement analysis, system design, and the user interface development.
- **Awards**: National Second Prize of College Student Computer Design Competition.

Honors and Awards

Aug. 2020 **National Second Prize**, National College Student Computer Design Competition.
July. 2020 **National Bronze Prize**, The "Internet+" Innovation and Entrepreneurship Competition.
Sep. 2020 **Regional First Prize**, Mathematical Contest in Modeling (CUMCM-2020).
Sep. 2020 **National Encouragement Scholarship** (3 %).
Sep. 2020 **Outstanding Student Award** (15 %).
Oct. 2019 **National Encouragement Scholarship** (3 %).
Oct. 2019 **Outstanding Student Award** (15 %).