Xian Wang

Software Engineering, Xidian University, China

x1anwang.github.io

☑ xian.wang.cs@gmail.com

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Education

Xidian University

Xian, China

B.Eng. in Software Engineering (Specialization: Machine Learning)

Sep. 2018~Now

GPA: 3.7/4.0

Research Interests

Machine Learning, Intrusion Detection, Cybersecurity, Edge Computing.

Research Experience

Once Pre-training: Online Packets Inspection Considering Imbalanced Data and Concept Drift USENIX in review, Second author

Mar. 2020~Oct. 2020

- It proposes a dynamic ensemble classifier for packets-based intrusion detection and designs a better Word2Vec-based method to extract features of packets. It considers imbalance problem and concept drift and achieves the sota performance.
- I participate in literature research, model testing, model design, coding, and paper writing of this work.

Simple Attention-based RelationNet with Better Encapsulation and Classification for Few-shot Learning

Nov. 2019~Mar. 2020

COLING in review, Third author

- It proposes a simple and robust model based on feature attention and instance attention for the few-shot task, which uses a learnable nonlinear measurement method for classification. It helps obtain a better class vector and shows a good generalization on the text classification task.
- I participate in literature research, model testing and paper revision of this work.

Internship

Xidian Network and Information Security Lab

Sep. 2018~Sep. 2020

- Research on Machine Learning based Cybersecurity Application.
- I read related papers, test their models and share my progress monthly during the internship.

Honors and Awards

- 2019~2020 National Scholarship (TOP 1%), by Ministry of Education of the People's Republic of China, 2020
- 2018~2019 National Scholarship (TOP 1%), by Ministry of Education of the People's Republic of China, 2019
- **Honorable Mention** in American International Interdisciplinary Contest in Modeling, by the Consortium for Mathematics and Its Application, 2020
- **Second Prize (TOP 0.15%)** in National English Competition for College Students, by College English Teaching and Research Association of China, 2019
- **Silver Prize** in the "Internet+" Innovation and Entrepreneurship Competition, by Shaanxi Provincial Department of Education, 2019
- **Honorable Mention** in American International Interdisciplinary Contest in Modeling, the Consortium for Mathematics and Its Application, 2020
- **Second Prize** in National Mathematical Contest in Modeling, by Shaanxi Association of Industry and Applied Mathematics, 2019
- **Second Prize** in National English Writing Competition, by Foreign Language Teaching Steering Committee of Institutions of Higher Learning, 2019

- Outstanding Winner (TOP 1%) in the 5th Xidian English Writing Competition, by Xidian University, 2019
- First Prize (TOP 8%) in Mathematical Contest of Xidian University, by Xidian university, 2019
- First Prize in Xidian English Speech Contest, by Xidian University, 2019

Selected Projects

C++ Based Students Management System for Teachers

• It can help teachers organize registration, roll call, signing in and interact with students.

MATLAB Based Modelling for Football Players' Dynamic Networks

- It is an implementation of the theories of football players' dynamic networks
- It can construct ball-passing networks of a football team and help analysis the team's performance by the networks.

Stanford Online Training Projects on Machine Learning

• The 11 week's tasks include spam detection, handwritten numeral recognition, cancer classification and so on. I implemented them all in MATLAB.

Skills

Coding: Python, C, C++, MATLAB, Java, IATEX

Framework: TensorFlow, Scapy, Sklearn, NumPy, Pandas

Tool & Platform: MySQL, WireShark, Linux

Language: Chinese(mother tongue), English(fluent)

Selected Coursework

Probability Theory • Machine Learning • Operating Systems • Database Management Computer Communication and Network • Information Security • Cloud Computing