ZIQIANG CHENG

Mobile: *(+86)178-1689-0624*   E-mail: *petecheng@zju.edu.cn*
Room 205, Zetong Building, Yuquan Campus, Zhejiang University
Hangzhou, Zhejiang, 310027, China

Education

Zhejiang University   *Sep. 2018 - Now*
M.S. Candidate (First Year), Computer Science & Technology
Advisor: Yang Yang and Yueting Zhuang

Zhejiang University   *Sep. 2014 - Jul. 2018*
B.S., Computer Science, Thesis advisor: Yang Yang
Average GPA: 4.50/5.0, rank 4/180

Research Interests

Time series modeling, social network mining, computational social science

Publications

· Ziqiang Cheng, Yang Yang, Chenhao Tan, Denny Cheng, Alex Cheng, and Yueting Zhuang. "What Makes a Good Team? A Large-scale Study on the Effect of Team Composition in Honor of Kings". In Proceedings of the Twenty-Eighth World Wide Web Conference (WWW'19, short paper), 2019.
· Ziqiang Cheng, Yunfeng Guo, Rong Huang and Yang Yang. "Process-crash Detection by Analogy with Social Network". In the Social Media Processing Conference (SMP'17, Poster in Chinese), 2017
· Ziqiang Cheng, Yang Yang, Wei Wang, Wenjie Hu and Yueting Zhuang."Time2Graph: Revisiting Time Series Modeling with Dynamic Shapelets". Under review.

Academic Experience

· Poster Presentation in SMP 2017, Beijng, China
· Poster Presentation in WWW 2019, San Francisco, CA, USA (planning)

Professional Experience

Social Network Group, Zhejiang University - M.S. Candidate   *Sep. 2018 - now*
· Focus on computational social science, social network mining and machine learning
· Machine learning algorithms for time series modeling and representation
· Behavior analysis and user identification in large-scale online social networks

Huayun Inc. (State Grid) - Machine Learning Intern   *Mar. 2018 - now*
· Anomaly detection of theft of electrical consumption
· Large-scale machine learning framework *Time2Graph* for time series modeling
· Scalable and robust embedding algorithm for time series sequence/shapelets
· User/group identification by KMeans and PSM

IEG, Tencent Inc. - Machine Learning Intern   *Sep. 2017 - Jan. 2019*
· Mine deep knowledge from the dataset of *Honor of Kings*, a famous MOBA game
· Explore the effect of team composition on team effectiveness by multiple measurements
· Team- and individual- level abusive behavior analysis

Projects

Time2Graph - Main Contributor
Machine Learning ◇ Pytorch ◇ Python
A generalized framework for time series representation algorithm *Time2Graph*, which transforms the original time series embedding problem into graph embedding, and construct the *shapelet-evolution graph* to explore the dynamics of shapelets. Validate the proposed framework on several public time series datasets and two real-world datasets from *State Grid* and *China Telecom.*

Honor of Kings - Observational and Analytical Study
Statistics ◇ SQL ◇ Hadoop ◇ Python
Observational and analytical studies on over 96M games and 100M players, using SQL and paralleled programming on Hadoop clusters provided by Tencent Inc.

Mini-Stock Trading System - Contributor
Software Engineering ◇ Web Application ◇ Javascript ◇ C++
A Mini Stock Trading System, group project in the *Software Engineering* course, using frameworks including Apache Web Server, Google Materialize, jQuery and bootstrap. Grade A.

Tiger Compiler - Contributor
Compiler Theory ◇ Data Structure ◇ C++
A compiler for the *Tiger language*, group project for the *Compiler* course.

Selected Achievements and Awards

- Alibaba Student Scholarship, 2017
- Second-Class Student Scholarship in Zhejiang University (Top 7%), 2017
- National Scholarship of China (Top 1%), 2016
- First-class Student Scholarship in Zhejiang University (Top 3%), 2015, 2016
- Samsung Student Scholarship, 2016
- Excellent Social Work Scholarship, Excellent Student Cadres, 2016
- First Prize of Physics Innovation Competition in Zhejiang Province, 2015