XUEQI YANG

Homepage, Github, Linkedin, ResearchGate
+1-571-392-0734 ⋄ xyang37@ncsu.edu

EDUCATION

PhD in Computer Science Aug 2018 - Present
North Carolina State University, Advisor: Dr. Tim Menzies
Research interests: Software Engineering, Data Mining, Deep Learning
Coursework: Automated SE | SE | Algorithm | Networking | Spatial Temporal Data Mining

Bachelor in Information Management and Information System Sep 2014 - July 2018
Dongbei University of Finance and Economics, China, GPA: 90/100
Coursework: C | Java | Data Structure | Data Mining | Web Design | Database | Operation Research

SKILLS AND STRENGTHS

Languages	Python, C, Java, JavaScript, MatLab, SQL, ASP.Net
Tools	Sickit-learn, Latex, Keras, Pytorch, MacOS, Linux
Others	Operation Research, Statistics

SELETED PROJECTS

Detection for Static Defects with DNN Models Sep 2019 - Jan 2020
NSF funded project in the RAISE lab *Raleigh, NC*

· Implement deep neural networks in Keras and Pytorch with static defect artifacts to predict real defects to act on. Utilize regulariser like Early stopping and dropout to avoid DNN models from overfitting and lower the runnning overhead. Use Box-counting methods to explore the intrinsic dimension of SE data.

Static Warnings Analysis using active learning Dec 2018 - Aug 2019
NSF funded project in the RAISE lab *Raleigh, NC*

· Identify actionable static warnings of 9 projects generated by FindBugs with active learning and machine learning algorithms to achieve higher recall with lower cost by reducing false alarm.

Spatial Temporal Object Change Detection and Localization Jan 2020 - Present
Coursework project *Raleigh, NC*

· Implement Mask R-CNN with Pytorch for satellite images change detection and localization. Assess building damage from satellite imagery with a variety of disaster events and different damage extents.

Quadratic Surface Support Vector Regression for Electric Load Forecasting Aug 2017 - Aug 2018
Undergraduate Research Project *China*

· Use LS-SVR and QSSVR models with the interior point algorithm, and the OLS regression and ANN models implemented by Matlab for electric load forecasting.

PUBLICATIONS

[1] Xueqi Yang, Zhe Yu, Junjie Wang and Tim Menzies, An Expert System for Learning Software Engineering Knowledge (with Case Study in Understanding Static Code Warning), **Expert Systems with Applications (Under review)**, 2019.

[2] Jian Luo, Tao Hong, and Xueqi Yang , Fuzzy Support Vector Regression Models for Load Forecasting, **IEEE Transactions on Fuzzy Systems (Under review)**, 2019 .

[3] Jian Luo, Xueqi Yang,Ye Tian and Wenwen Yu, Corporate and Personal Credit Scoring via Fuzzy Non-kernal SVM with Fuzzy within-class Scatter, **Journal of Industrial and Management Optimization, accepted**, 2018.

HONORS

- Teaching Assistant (2018 Fall) and Research Assistant (Jan 2019 - Present), North Carolina State University.
- Honorable Mention in Interdisciplinary Contest in Modeling, Jan 2016.
- National Second Prize in China Undergraduate Mathematical Contest in Modeling, Sep 2015.