

ZHIQIANG WU

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I am Ph.D. candidate in Computer Science and Engineering at Hanyang University, South Korea. My major research field is Software Engineering. The objective of my research is to improve the security on mobile system. My interests include Mobile Application Analysis, Software Refactoring and Deep Learning.

Education

Hanyang University, South Korea

2017 - Present

Ph.D. in Computer Science and Engineering

Supervisor: Scott Uk-Jin Lee

Hanyang University, South Korea

2015 - 2017

M.S. in Computer Science and Engineering

Lunghwa University of Science and Technology, Taiwan

2014 - 2014

Academic Exchange Students in Electronic Engineering

Shanghai Polytechnic University, Shanghai

2011 - 2015

B.E. in Computer Science and Technology

Research Experiences

Definition and Detection of Practically Valuable Code Smells

2020 - 2021

Program Analysis of Copyright for Court

2018 - 2019

Access Control of Security Policy for IoT Environment

2016 - 2019

Establishment of Software Platform for ICT Equipment

2016 - 2018

Graph Modification for SJM Company

2016 - 2017

Vehicle Gate Barrier System for Intelligence Community

2013 - 2014

Software of Finance Automatically Analysis

2013 - 2014

Academic Activities

Publications

1. **Zhiqiang Wu**, Xin Chen and Scott Uk-Jin Lee, FCDP: Fidelity Calculation of Description-to-Permissions in Android Apps, *IEEE ACCESS*, vol. 9, 2021, pp. 1062-1075
2. Xin Chen, **Zhiqiang Wu** and Scott Uk-Jin Lee, Duplicate Code Detection Based on Geometric Center for IoT Application, in *Proc. of 7th International Conference on Information, System and Convergence Applications*, Ho Chi Minh, Vietnam, 2020
3. **Zhiqiang Wu**, Xin Chen and Scott Uk-Jin Lee, Permission Smells Detection for IoT Applications on Android Platform, in *Proc. of Korea Software Congress*, 2019
4. Xin Chen, **Zhiqiang Wu** and Scott Uk-Jin Lee, Web Attack Detection Based on ResNet and RNN, in *Proc. of International Conference on Computational Sciences and Technologies*, Jamshoro, Pakistan, 2019
5. **Zhiqiang Wu**, Xin Chen and Scott Uk-Jin Lee, Identifying Latent Android Malware from Application's Description using LSTM, in *Proc. of 6th International Conference on Information, System and Convergence Applications*, Bangkok, Thailand, 2019, pp. 40-42
6. **Zhiqiang Wu**, Xin Chen and Scott Uk-Jin Lee, Permissions based Automatic Android Malware Repair using Long Short-Term Memory, in *Proc. of Korean Society of Computer Information Conference*, South Korea, 2019, pp. 387-388 (**Best Paper**)
7. **Zhiqiang Wu**, Asad Abbas, Xin Chen and Scott Uk-Jin Lee, Classification of Concurrent Anomalies for IoT Software-based Support Vector Machine, *Journal of Theatrical and Applied Information Technology*, vol. 96, no. 3, 2018, pp. 832-842
8. Xin Chen, **Zhiqiang Wu** and Scott Uk-Jin Lee, Testing and Evaluation of Free/Open Source Web Vulnerability Scanners for IoT Web Applications, in *Proc. Of International Workshop on Convergence Information Technology*, Busan, Korea, 2017
9. **Zhiqiang Wu**, Asad Abbas and Scott Uk-Jin Lee, Multiple Concurrency Anomalies Classification for Mobile Applications using Support Vector Machine, in *Proc. of International Conference on Computing Convergence and Applications*, Saipan, U.S.A, 2017 (**Best Paper**)
10. Asad Abbas, Isma Farah Siddiqui, **Zhiqiang Wu**, Mohsin Javaid Siddiqui and Scott Uk-Jin Lee, Contextual Variability Management for Multi-Software Product Line, in *Proc. of International Conference on Computing Convergence and Applications*, Saipan, U.S.A, 2017
11. **Zhiqiang Wu** and Scott Uk-Jin Lee, The Application of Banker's Algorithm in Order Scheduling Management for Deadlock Avoidance, in *Proc. of 2016 Korea Computer Comprehensive Congress*, Jun. 2016, pp.660-662

12. Asad Abbas, **Zhiqiang Wu**, Isma Farah Siddiqui and Scott Uk-Jin Lee, Challenges of Multi-Objective Optimization in Feature Model of Software Product Line, in *Proc. of 3rd International Conference on Information, System and Convergence Applications*, 2016, pp.15-17
13. Asad Abbas, **Zhiqiang Wu**, Isma Farah Siddiqui and Scott Uk-Jin Lee, An Approach for Optimized Feature Selection in Software Product Line using Union-Find and Genetic Algorithms, *Indian Journal of Science and Technology*, vol.9, pp.1-9, May 2016
14. Asad Abbas, **Zhiqiang Wu**, Isma Farah Siddiqui and Scott Uk-Jin Lee, Optimized Feature selection with Crosscutting Concerns in Software Product Line Feature Model, in *Proc. of 2nd International Conference on Information and Convergence Technology for Smart Society*, 2016, pp.9-11
15. **Zhiqiang Wu**, Seonwoong Kim, Abdul Rahim Mohamed Ariffin and Scott Uk-Jin Lee, An Effect Attendance Management System Based on Browser/Server Technique, in *Proc. of 42nd Korea Computer Congress*, Dec. 2015, pp.505-507

Practical Experiences

China Life Insurance Co. Ltd. 2014

----- *Intern at Division of Application*

My responsibility was deploying the new application to server and assist colleagues to test the software environment.

Technical Support Association in Computer College 2012 - 2014

----- *Poster Designer*

I have joined it for 2 years. I mainly took charge of designing posters which used for propagation of computer college. Meanwhile, I helped other students who do not how to repair their laptops to repair them as a volunteer.

ACM Club 2011 - 2015

----- *Organizer*

Due to loving algorithm programming, I have joined this club for 4 years. I was appointed leader of this club when I was a junior student. Then, I organized training every week and assisted professor to arrange students attending contests.

Awards/Honors

Chinese Government Scholarship (CSC) for Ph.D. Study 2017-2021

Hanyang University Scholarship for Engineering Students 2015

Excellent Graduate of Shanghai Second Polytechnic University (Top 10%) 2015

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| Outstanding Student Awardsof Shanghai Second Polytechnic University (Top 5%) | 2014 |
| National 3rd Prize of 2014 Taiwan Open Hardware Application Innovation Contest | 2014 |
| Provincial 1st Prize of the 1st Innovation Contest by Taoyuan, Taiwan | 2014 |
| 2nd Prize of Scholarship in Shanghai Second Polytechnic University (Top 10%) | |
| 3rd Prize of Scholarship in Shanghai Second Polytechnic University (Top 20%) | |
| Provincial 3rd Prize of 3th “Lan Qiao Cup” Programming Contest in Shanghai | 2013 |

Skills

Language competence: English (IELTS 5.5), Korean (Level 2), Chinese

Major Skills: C/C++, Java, Golang, Python, Linux, C#

Professional certificates: Embedded System Designer, Microsoft Technology Associate

Last Updated: Jan. 12, 2021