Yuwei Zhang

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🎓 Educational History

Beijing University of Posts and Telecommunications   **Beijing, China**
Ph.D. in Computer Science & Technology   Sep 2016 – Jun 2021
Advisor: Prof. Yunzhan Gong

Beijing University of Posts and Telecommunications   **Beijing, China**
B.S. in Network Engineering   Sep 2012 – Jun 2016

👥 Employment History

Institute of Software Chinese Academy of Science   **Beijing, China**
Assistant Research Fellow   Aug 2023 – present

Peking University   **Beijing, China**
Postdoctoral Associate   Sep 2021 – Jul 2023
Advisor: Prof. Zhi Jin

📖 Selected Publications

Refereed Journal or Conference Papers   (**Corresponding Author**)

1. **Yuwei Zhang**, Ying Xing, Ge Li, <u>Zhi Jin</u>. Automated Static Warning Identification via Path-Based Semantic Representation. *Journal of Software*, 2023. **[CCF-A]**
2. **Yuwei Zhang**, <u>Zhi Jin</u>, Zejun Wang, Ying Xing, Ge Li. SAGA: Summarization-Guided Assert Statement Generation. *Journal of Computer Science and Technology*, 2023. **[CCF-B]**
3. Yanyang Zhao, <u>Yawen Wang</u>, **Yuwei Zhang**, Dalin Zhang, Yunzhan Gong, Dahai Jin. ST-TLF: Cross-Version Defect Prediction Framework Based on Transfer Learning. *Information and Software Technology*, 2022. **[CCF-B]**
4. <u>Ying Xing</u>, Xiaomeng Qian, Yu Guan, Bin Yang, **Yuwei Zhang**. Cross-Project Defect Prediction Based on G-LSTM Model. *Pattern Recognition Letters*, 2022. **[CCF-C]**
5. **Yuwei Zhang**, <u>Dahai Jin</u>, Ying Xing, Yunzhan Gong. Automated Defect Identification via Path Analysis-Based Features with Transfer Learning. *Journal of Systems and Software*, 2020. **[CCF-B]**
6. **Yuwei Zhang**, Ying Xing, Yunzhan Gong, Dahai Jin, Honghui Li, Feng Liu. A Variable-Level Automated Defect Identification Model Based on Machine Learning. *Soft Computing*, 2020. **[CCF-C]**

In-Submission Papers

1. Ying Xing, Mengci Zhao, Bin Yang, **Yuwei Zhang**, Wenjin Li, Jiawei Gu, Jun Yuan. Defect Category Prediction Based on Multi-Source Domain Adaptation. 2023.
2. **Yuwei Zhang**, Zhi Jin, Ying Xing, Ge Li. Automatic Bug Fixing in the Era of Large Language Models: Interactive Simulation of Programmer Behavior. 2023.
3. **Yuwei Zhang**, Ge Li, Ying Xing, Zhi Jin. RepeatNPR: Improving Neural Program Repair using Program Dependence Analysis and Filter Mechanism. 2023.
4. Dongming Zhu, <u>Yawen Wang</u>, Boyang Zheng, Dahai Jin, **Yuwei Zhang**. SEMVul: Semantic-Driven Multi-Channel Image Construction for Enhanced Vulnerability Detection. 2023.

Book Chapters

1. Yunzhan Gong, Ruilian Zhao, Wei Zhang, Yawen Wang, **Yuwei Zhang**. Software Testing Third Edition. 2021.

🗓 ACADEMIC SERVICES

- Conference External Reviewer – ICST'23, ICSOC'23, APSEC'23, SANER'23, ICSE-SEIP'22
- Journal Reviewer – Knowledge and Information Systems, IEEE Transactions on Reliability

♡ SCHOLARSHIPS AND AWARDS

China Scholarship Council Scholarship (Joint-Training Ph.D. Program)   2020

ⓘ MISCELLANEOUS

Teaching Experience

Teaching Assistant – Formal Language and Automata, Peking University   2021

Professional Memberships

China Computer Federation (CCF) Member   2021 – present

Skills

- **Language**: Mandarin(Native), English (Fluent)
- **Programming**: Python, Java, Matlab, C
- **Platform**: LaTex, Pytorch, Conda, Linux