Jun-Wei Lin

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Research Interests

Software Engineering, Software Analysis and Testing with Natural Language Processing and Machine Learning Techniques.

Education

University of California, Irvine — Irvine, California
Ph.D. in Software Engineering. GPA: 3.98/4.0 — September 2021
Dissertation: Advancing Automated Software Testing Through Test Reuse

National Tsing Hua University — Hsinchu, Taiwan
Master of Science in Computer Science. GPA: 4.0/4.0 — July 2008

National Tsing Hua University — Hsinchu, Taiwan
Bachelor of Science in Computer Science. GPA: 3.07/4.0 — June 2006

Honors and Awards

Graduate Dean's Dissertation Fellowship, UC Irvine, 2020

Chair's Award and Graduate Dean's Recruitment Fellowship, UC Irvine, 2016

Government Fellowship for Studying Abroad, Ministry of Education, Taiwan, 2014

Publications

Google Scholar Citations: 370. H-index: 9 (https://scholar.google.com/citations?user=cIEtAIkAAAAJ)

Conference Papers

[C9] GUI Test Transfer from Web to Android
Jun-Wei Lin and Sam Malek
15th IEEE International Conference on Software Testing, Verification and Validation (ICST 2022) (26% acceptance rate)

[C8] Latte: Use-Case and Assistive-Service Driven Automated Accessibility Testing Framework for Android
Navid Salehnamadi, Abdulaziz Alshayban, Jun-Wei Lin, Iftekhar Ahmed, Stacy Branham, and Sam Malek
2021 ACM SIGCHI Conference on Human Factors in Computing Systems (CHI 2021) (26% acceptance rate)

[C7] Test Automation in Open-Source Android Apps: A Large-Scale Empirical Study
Jun-Wei Lin, Navid Salehnamadi, and Sam Malek
35th International Conference on Automated Software Engineering (ASE 2020) (23% acceptance rate)

[C6] Test Transfer Across Mobile Apps Through Semantic Mapping
Jun-Wei Lin, Reyhaneh Jabbarvand, and Sam Malek
34th International Conference on Automated Software Engineering (ASE 2019) (21% acceptance rate)

[C5] Search-Based Energy Testing of Android
Reyhaneh Jabbarvand, Jun-Wei Lin, and Sam Malek
41st International Conference on Software Engineering (ICSE 2019) (21% acceptance rate)

[C4] Nemo: Multi-Criteria Test-Suite Minimization with Integer Nonlinear Programming
Jun-Wei Lin, Reyhaneh Jabbarvand, Joshua Garcia, and Sam Malek
40th International Conference of Software Engineering (ICSE 2018) (21% acceptance rate)

[C3] Using Semantic Similarity in Crawling-Based Web Application Testing
Jun-Wei Lin, Farn Wang, and Paul Chu
10th IEEE International Conference on Software Testing, Verication and Validation (ICST 2017) (27% acceptance rate)

[C2] Automated Testing of Web Applications with Text Input
Chi-Yun Wu, Farn Wang, Ming-Hong Weng, and Jun-Wei Lin
2015 IEEE International Conference on Progress in Informatics and Computing (PIC 2015)

[C1] Test Suite Reduction Analysis with Enhanced Tie-Breaking Techniques
Jun-Wei Lin, Chin-Yu Huang, and Chu-Ti Lin
4th IEEE International Conference on Management of Innovation and Technology (ICMIT 2008)

Journal Papers

[J3] ROUTE: Roads Not Taken in UI Testing
Jun-Wei Lin, Navid Salehnamadi, and Sam Malek
ACM Transactions on Software Engineering and Methodology (accepted to appear)

[J2] The i5k Workspace@NAL—enabling genomic data access, visualization and curation of arthropod genomes
Monica Poelchau, Christopher Childers, Gary Moore, Vijaya Tsavatapalli, Jay Evans, Chien-Yueh Lee, Han Lin, Jun-Wei Lin,
and Kevin Hackett
Nucleic Acids Research, Vol. 43, Issue D1, Jan. 2015.

[J1] Analysis of Test Suite Reduction with Enhanced Tie-Breaking Techniques
Jun-Wei Lin and Chin-Yu Huang
Information and Software Technology, Vol. 51, No. 4, Apr. 2009.

Book

[B1] Web Scraping and Data Analysis with Python (in Chinese)
Jun-Wei Lin and Hubert Lin
DrMaster Press, 2018. ISBN: 9789864343386

Employment History

MGM Resorts International	Irvine, California
Software Engineer	September 2021 – Present
University of California, Irvine	Irvine, California
Graduate Student Researcher	September 2016 – September 2021
QNAP Inc.	Taipei, Taiwan
Software Engineering Intern	July 2016 – August 2016
National Agricultural Library	Beltsville, Maryland
Research Intern	May 2014 – May 2015
Ministry of Justice	Taipei, Taiwan
IT System Manager	June 2012 – September 2013
Taipei District Prosecutors Office	Taipei, Taiwan
IT Technician	January 2011 – May 2012
Yangming Senior High School	Taipei, Taiwan
IT Technician	August 2009 – December 2010

Service

Reviewer

Springer Computing, 2022

Elsevier Journal of Systems and Software, 2022

ACM Transactions on Software Engineering and Methodology, 2020

IEEE Transactions on Software Engineering, 2019

European Conference on Software Architecture (ECSA 2018)

International Symposium on Software Engineering for Adaptive and Self-Managing Systems (SEAMS 2018)

Supervised Students

University of California, Irvine

Navid Salehnamadi (PhD Student)

Jingkaihui Wei (Undergrad Student)

Alyssa Deeb (Undergrad Student)

Teaching Assistantships

University of California, Irvine

SWE 266P Software Security and Dependability, Spring 2020

SWE 264P Distributed Software Architecture, Winter 2020

IN4MATX 117 Project in Software System Design, Fall 2019

Grants

SIGSOFT CAPS Travel Grant to Attend ASE 2019

SIGSOFT CAPS Travel Grant to Attend ICSE 2018