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Technical Track

ICSE 2021

About Program Accepted Papers Information for Authors People Index Call for Papers

Accepted Papers

★ **Title**

☆ "Ignorance and Prejudice" in Software Fairness [Technical Track]
Jie M. Zhang (https://conf.researchr.org/profile/icse-2021/jiemzhang), Mark Harman (https://conf.researchr.org/profile/icse-2021/markharman)
Pre-print (https://discovery.ucl.ac.uk/id/eprint/10123814/1/ICSE2021__Ignorance_Prejudice%20%285%29.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/128/-Ignorance-and-Prejudice-in-Software-Fairness)

☆ A Case Study of Onboarding in Software Teams: Tasks and Strategies [Technical Track]
An Ju (https://conf.researchr.org/profile/icse-2021/anju), Hitesh Sajnani (https://conf.researchr.org/profile/icse-2021/hiteshsajnani2), Scot Kelly (https://conf.researchr.org/profile/icse-2021/scotkelly), Kim Herzig (https://conf.researchr.org/profile/icse-2021/kimherzig)
Pre-print (https://arxiv.org/abs/2103.05055) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/131/A-Case-Study-of-Onboarding-in-Software-Teams-Tasks-and-Strategies)

☆ A Context-based Automated Approach for Method Name Consistency Checking and Suggestion [Technical Track]
Yi Li (https://conf.researchr.org/profile/icse-2021/yili1), Shaohua Wang (https://conf.researchr.org/profile/icse-2021/shaohuawang), Tien N. Nguyen (https://conf.researchr.org/profile/icse-2021/tiennguyen)
Pre-print (https://arxiv.org/pdf/2103.00269.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/99/A-Context-based-Automated-Approach-for-Method-Name-Consistency-Checking-and-Suggestio)

☆ A Differential Testing Approach for Evaluating Abstract Syntax Tree Mapping Algorithms [Technical Track]
Yuanrui Fan (https://conf.researchr.org/profile/icse-2021/yuanruifan1), Xin Xia (https://conf.researchr.org/profile/icse-2021/xinxia), David Lo (https://conf.researchr.org/profile/icse-2021/davidlo), Ahmed E. Hassan (https://conf.researchr.org/profile/icse-2021/ahmedehassan), Yuan Wang (https://conf.researchr.org/profile/icse-2021/yuanwang), Shanping Li (https://conf.researchr.org/profile/icse-2021/shanpingli)
Pre-print (https://xin-xia.github.io/publication/icse212.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/48/A-Differential-Testing-Approach-for-Evaluating-Abstract-Syntax-Tree-Mapping-Algorithm)

☆ AID: An Automated Inclusivity-Bug Detector [Technical Track]
Amreeta Chatterjee (https://conf.researchr.org/profile/icse-2021/amreetachatterjee), Mariam Guizani (https://conf.researchr.org/profile/icse-2021/mariamguizani), Catherine Stevens (https://conf.researchr.org/profile/icse-2021/catherinestevens), Jillian Emard (https://conf.researchr.org/profile/icse-2021/jillianemard), Mary Evelyn May (https://conf.researchr.org/profile/icse-2021/maryevelynmay), Margaret Burnett (https://conf.researchr.org/profile/icse-2021/margaretburnett), Iftekhar Ahmed (https://conf.researchr.org/profile/icse-2021/iftekharahmed), Anita Sarma (https://conf.researchr.org/profile/icse-2021/anitasarma)
Pre-print (https://ir.library.oregonstate.edu/concern/defaults/ws859n93g) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/94/AID-An-Automated-Inclusivity-Bug-Detector)

☆ ATVHunter: Reliable Version Detection of Third-Party Libraries for Vulnerability Identification in Android Apps [Technical Track] [ACM SIGSOFT Distinguished Paper]
Xian Zhan (https://conf.researchr.org/profile/icse-2021/zhanxian), Lingling Fan (https://conf.researchr.org/profile/icse-2021/linglingfan), Sen Chen (https://conf.researchr.org/profile/icse-2021/senchen), Feng Wu (https://conf.researchr.org/profile/icse-2021/fengwu), Tianming Liu (https://conf.researchr.org/profile/icse-2021/tianmingliu), Xiapu Luo (https://conf.researchr.org/profile/icse-2021/xiapuluo), Yang Liu (https://conf.researchr.org/profile/icse-2021/yangliu)
Pre-print (https://arxiv.org/pdf/2102.08172.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/18/ATVHunter-Reliable-Version-Detection-of-Third-Party-Libraries-for-Vulnerability-Iden)

☆ AUTOTRAINER: An Automatic DNN Training Problem Detection and Repair System [Technical Track]
Xiaoyu Zhang (https://conf.researchr.org/profile/icse-2021/xiaoyuzhang), Juan Zhai (https://conf.researchr.org/profile/icse-2021/juanzhai), Shiqing Ma (https://conf.researchr.org/profile/icse-2021/shiqingma), Chao Shen (https://conf.researchr.org/profile/icse-2021/chaoshen)
Pre-print (https://shiningrain.github.io/papers/Zhang2021ICSE.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/81/AUTOTRAINER-An-Automatic-DNN-Training-Problem-Detection-and-Repair-System)

☆ Abacus: Precise Side-Channel Analysis [Technical Track]
Qinkun Bao (https://conf.researchr.org/profile/icse-2021/qinkunbao), Zihao Wang (https://conf.researchr.org/profile/icse-2021/zihaowang1), Xiaoting Li (https://conf.researchr.org/profile/icse-2021/xiaotingli), James Larus (https://conf.researchr.org/profile/icse-2021/jimlarus), Dinghao Wu (https://conf.researchr.org/profile/icse-2021/dinghaowu2)
Pre-print (https://github.com/qinkunbao/QIF-paper/raw/master/ICSE2021_JUN_28/main_camera_ready.pdf)

Important Dates

AoE (UTC-12h)

Fri 12 Feb 2021
Technical Track Camera Ready

Thu 17 Dec 2020
Technical Track Acceptance Notification

Wed 18 Nov - Fri 20 Nov 2020
Technical Track Author Response Period

Fri 28 Aug 2020
Technical Track Submissions Deadline

Program Committee (https://conf.researchr.org/committee/icse-2021/icse-2021-papers-program-committee)

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Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/110/Abacus-Precise-Side-Channel-Analysis)

☆ An Empirical Analysis of UI-based Flaky Tests Technical Track

Alan Romano (https://conf.researchr.org/profile/icse-2021/alanromano), Zihe Song (https://conf.researchr.org/profile/icse-2021/zihesong), Sampath Grandhi (https://conf.researchr.org/profile/icse-2021/sampathgrandhi), Wei Yang (https://conf.researchr.org/profile/icse-2021/weiyang), Weihang Wang (https://conf.researchr.org/profile/icse-2021/weihangwang)

Pre-print (https://arxiv.org/abs/2103.02669) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/54/An-Empirical-Analysis-of-UI-based-Flaky-Tests)

☆ An Empirical Assessment of Global COVID-19 Contact Tracing Applications Technical Track

Ruoxi Sun (https://conf.researchr.org/profile/icse-2021/ruoxisun1), Wei (Zach) Wang (https://conf.researchr.org/profile/icse-2021/zachwang), Minhui (Jason) Xue (https://conf.researchr.org/profile/icse-2021/jasonxue1), Gareth Tyson (https://conf.researchr.org/profile/icse-2021/garethtyson), Seyit Camtepe (https://conf.researchr.org/profile/icse-2021/seyitcamtepe), Damith C. Ranasinghe (https://conf.researchr.org/profile/icse-2021/damithcranasinghe)

Pre-print (https://arxiv.org/abs/2006.10933) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/121/An-Empirical-Assessment-of-Global-COVID-19-Contact-Tracing-Applications)

☆ An Empirical Study of Refactorings and Technical Debt in Machine Learning Systems Technical Track

Yiming Tang (https://conf.researchr.org/profile/icse-2021/yimingtang), Raffi Khatchadourian (https://conf.researchr.org/profile/icse-2021/raffikhatchadourian), Mehdi Bagherzadeh (https://conf.researchr.org/profile/icse-2021/mehdibagherzadeh), Rhia Singh (https://conf.researchr.org/profile/icse-2021/rhiasingh), Ajani Stewart (https://conf.researchr.org/profile/icse-2021/ajanistewart), Anita Raja (https://conf.researchr.org/profile/icse-2021/anitaraja)

Pre-print (https://academicworks.cuny.edu/hc_pubs/671) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/71/An-Empirical-Study-of-Refactorings-and-Technical-Debt-in-Machine-Learning-Systems)

☆ An Empirical Study on Deployment Faults of Deep Learning Based Mobile Applications Technical Track

Zhenpeng Chen (https://conf.researchr.org/profile/icse-2021/zhenpengchen), Huihan Yao (https://conf.researchr.org/profile/icse-2021/huihanyao), Yiling Lou (https://conf.researchr.org/profile/icse-2021/yilinglou), Yanbin Cao (https://conf.researchr.org/profile/icse-2021/yanbincao), Yuanqiang Liu (https://conf.researchr.org/profile/icse-2021/yuanqiangliu), Haoyu Wang (https://conf.researchr.org/profile/icse-2021/haoyuwang), Xuanzhe Liu (https://conf.researchr.org/profile/icse-2021/xuanzheliu1)

Pre-print (https://chenzhenpeng18.github.io/papers/ICSE21.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/130/An-Empirical-Study-on-Deployment-Faults-of-Deep-Learning-Based-Mobile-Applications)

☆ An Evolutionary Study of Configuration Design and Implementation in Cloud Systems Technical Track

Yuanliang Zhang (https://conf.researchr.org/profile/icse-2021/yuanliangzhang), Haochen He (https://conf.researchr.org/profile/icse-2021/haochenhe), Owolabi Legunsen (https://conf.researchr.org/profile/icse-2021/owolabilegunsen), Shanshan Li (https://conf.researchr.org/profile/icse-2021/shanshanli1), Wei Dong (https://conf.researchr.org/profile/icse-2021/weidong), Tianyin Xu (https://conf.researchr.org/profile/icse-2021/tianyinxu1)

Pre-print (https://arxiv.org/pdf/2102.07052.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/65/An-Evolutionary-Study-of-Configuration-Design-and-Implementation-in-Cloud-Systems) File Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/65/An-Evolutionary-Study-of-Configuration-Design-and-Implementation-in-Cloud-Systems)

☆ App's Auto-Login Function Security Testing via Android OS-Level Virtualization Technical Track

Wenna Song (https://conf.researchr.org/profile/icse-2021/wennasong), Jiang Ming (https://conf.researchr.org/profile/icse-2021/jiangming), Lin Jiang (https://conf.researchr.org/profile/icse-2021/linjiang1), Han Yan (https://conf.researchr.org/profile/icse-2021/hanyan), Yi Xiang (https://conf.researchr.org/profile/icse-2021/yixiang), Yuan Chen (https://conf.researchr.org/profile/icse-2021/yuanchen), Jianming Fu (https://conf.researchr.org/profile/icse-2021/jianmingfu), Guojun Peng (https://conf.researchr.org/profile/icse-2021/guojunpeng)

Pre-print (https://arxiv.org/abs/2103.03511) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/31/App-s-Auto-Login-Function-Security-Testing-via-Android-OS-Level-Virtualization)

☆ Are Machine Learning Cloud APIs Used Correctly? Technical Track

Chengcheng Wan (https://conf.researchr.org/profile/icse-2021/chengchengwan), Shicheng Liu (https://conf.researchr.org/profile/icse-2021/shichengliu), Henry Hoffmann (https://conf.researchr.org/profile/icse-2021/hankhoffman), Michael Maire (https://conf.researchr.org/profile/icse-2021/michaelmaire), Shan Lu (https://conf.researchr.org/profile/icse-2021/shanlu)

Pre-print (http://people.cs.uchicago.edu/~cwan/paper/ml_api.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/45/Are-Machine-Learning-Cloud-APIs-Used-Correctly-)

☆ AutoCCAG: An Automated Approach to Constrained Covering Array Generation Technical Track

Chuan Luo (https://conf.researchr.org/profile/icse-2021/chuanluo), Jinkun Lin (https://conf.researchr.org/profile/icse-2021/jinkunlin), Shaowei Cai (https://conf.researchr.org/profile/icse-2021/shaoweicai), Xin Chen (https://conf.researchr.org/profile/icse-2021/xinchen3), Bing He (https://conf.researchr.org/profile/icse-2021/binghe), Bo Qiao (https://conf.researchr.org/profile/icse-2021/boqiao), Pu Zhao (https://conf.researchr.org/profile/icse-2021/puzhao), Qingwei Lin (https://conf.researchr.org/profile/icse-2021/qingweilin), Hongyu Zhang (https://conf.researchr.org/profile/icse-2021/hongyuzhang), Wei Wu (https://conf.researchr.org/profile/icse-2021/weiwu1), Saravanakumar Rajmohan (https://conf.researchr.org/profile/icse-2021/saravanakumarrajmohan), Dongmei Zhang (https://conf.researchr.org/profile/icse-2021/dongmeizhang)

Pre-print (https://www.microsoft.com/en-us/research/uploads/prod/2021/02/2021019487.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/133/AutoCCAG-An-Automated-Approach-to-Constrained-Covering-Array-Generation)

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☆ Automated Query Reformulation for Efficient Search Based on Query Logs from Stack Overflow
Technical Track ACM SIGSOFT Distinguished Paper
Kaibo Cao (https://conf.researchr.org/profile/icse-2021/kaibocao), Chunyang Chen (https://conf.researchr.org/profile/icse-2021/chunyangchen1), Sebastian Baltes (https://conf.researchr.org/profile/icse-2021/sebastianbaltes), Christoph Treude (https://conf.researchr.org/profile/icse-2021/christophtreude), Xiang Chen (https://conf.researchr.org/profile/icse-2021/xiangchen2)
Pre-print (https://arxiv.org/abs/2102.00826) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/29/Automated-Query-Reformulation-for-Efficient-Search-Based-on-Query-Logs-from-Stack-Ove)

☆ Automatic Extraction of Opinion-based Q&A from Online Developer Chats
Technical Track
Preetha Chatterjee (https://conf.researchr.org/profile/icse-2021/preethachatterjee), Kostadin Damevski (https://conf.researchr.org/profile/icse-2021/kostadindamevski1), Lori Pollock (https://conf.researchr.org/profile/icse-2021/loripollock1)
Pre-print (https://cpb-us-w2.wpmucdn.com/sites.udel.edu/dist/8/2570/files/2021/02/ICSE21.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/36/Automatic-Extraction-of-Opinion-based-Q-A-from-Online-Developer-Chats)

☆ Automatic Solution Summarization for Crash Bugs
Technical Track
Haoye Wang (https://conf.researchr.org/profile/icse-2021/haoyewang), Xin Xia (https://conf.researchr.org/profile/icse-2021/xinxia), David Lo (https://conf.researchr.org/profile/icse-2021/davidlo), John Grundy (https://conf.researchr.org/profile/icse-2021/johngrundy1), Xinyu Wang (https://conf.researchr.org/profile/icse-2021/xinyuwang1)
Pre-print (https://xin-xia.github.io/publication/icse214.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/64/Automatic-Solution-Summarization-for-Crash-Bugs)

☆ Automatic Unit Test Generation for Machine Learning Libraries: How Far Are We?
Technical Track
Song Wang (https://conf.researchr.org/profile/icse-2021/songwang), Nishtha Shrestha (https://conf.researchr.org/profile/icse-2021/nishthashrestha), Abarna Kucheri Subburaman (https://conf.researchr.org/profile/icse-2021/abarnakucherisubburaman), Junjie Wang (https://conf.researchr.org/profile/icse-2021/junjiewang1), Moshi Wei (https://conf.researchr.org/profile/icse-2021/moshiwei1), Nachiappan Nagappan (https://conf.researchr.org/profile/icse-2021/nachiappannagappan)
Link to publication (https://www.eecs.yorku.ca/~wangsong/papers/icse2021.pdf) Pre-print (https://www.eecs.yorku.ca/~wangsong/papers/icse2021.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/40/Automatic-Unit-Test-Generation-for-Machine-Learning-Libraries-How-Far-Are-We-)

☆ Automatic Web Testing using Curiosity-Driven Reinforcement Learning
Technical Track
YAN ZHENG (https://conf.researchr.org/profile/icse-2021/zhengyan), Yi Liu (https://conf.researchr.org/profile/icse-2021/yiliu), Xiaofei Xie (https://conf.researchr.org/profile/icse-2021/xiaofeixie), Yepang Liu (https://conf.researchr.org/profile/icse-2021/yepangliu), Lei Ma (https://conf.researchr.org/profile/icse-2021/leima), Jianye Hao (https://conf.researchr.org/profile/icse-2021/jianyehao), Yang Liu (https://conf.researchr.org/profile/icse-2021/yangliu)
Pre-print (http://arxiv.org/abs/2103.06018) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/21/Automatic-Web-Testing-using-Curiosity-Driven-Reinforcement-Learning)

☆ Automatically Matching Bug Reports With Related App Reviews
Technical Track
Marlo Haering (https://conf.researchr.org/profile/icse-2021/marlohaering), Christoph Stanik (https://conf.researchr.org/profile/icse-2021/christophstanik), Walid Maalej (https://conf.researchr.org/profile/icse-2021/walidmaalej)
Pre-print (http://arxiv.org/abs/2102.07134) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/25/Automatically-Matching-Bug-Reports-With-Related-App-Reviews)

☆ Bounded Exhaustive Search of Alloy Specification Repairs
Technical Track
Simón Gutiérrez Brida (https://conf.researchr.org/profile/icse-2021/simongutierrezbrida), Germán Regis (https://conf.researchr.org/profile/icse-2021/germanregis), Guolong Zheng (https://conf.researchr.org/profile/icse-2021/guolongzheng), Hamid Bagheri (https://conf.researchr.org/profile/icse-2021/hamidbagheri), ThanhVu Nguyen (https://conf.researchr.org/profile/icse-2021/thanhvunguyen), Nazareno Aguirre (https://conf.researchr.org/profile/icse-2021/nazarenoaguirre), Marcelo F. Frias (https://conf.researchr.org/profile/icse-2021/marceloffrias)
Pre-print (https://arxiv.org/abs/2103.00327) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/60/Bounded-Exhaustive-Search-of-Alloy-Specification-Repairs)

☆ CENTRIS: A Precise and Scalable Approach for Identifying Modified Open-Source Software Reuse
Technical Track
Seunghoon Woo (https://conf.researchr.org/profile/icse-2021/seunghoonwoo), Sunghan Park (https://conf.researchr.org/profile/icse-2021/sunghanpark), Seulbae Kim (https://conf.researchr.org/profile/icse-2021/seulbaekim), Heejo Lee (https://conf.researchr.org/profile/icse-2021/heejolee), Hakjoo Oh (https://conf.researchr.org/profile/icse-2021/hakjoooh)
Pre-print (https://arxiv.org/abs/2102.06182) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/86/CENTRIS-A-Precise-and-Scalable-Approach-for-Identifying-Modified-Open-Source-Softwar)

☆ CHAMP: Characterizing Undesired App Behaviors from User Comments based on Market Policies
Technical Track
Yangyu Hu (https://conf.researchr.org/profile/icse-2021/yangyuhu), Haoyu Wang (https://conf.researchr.org/profile/icse-2021/haoyuwang), Tiantong Ji (https://conf.researchr.org/profile/icse-2021/tiantongji), Xusheng Xiao (https://conf.researchr.org/profile/icse-2021/xushengxiao1), Xiapu Luo (https://conf.researchr.org/profile/icse-2021/xiapuluo), Peng Gao (https://conf.researchr.org/profile/icse-2021/penggao1), Yao Guo (https://conf.researchr.org/profile/icse-2021/yaoguo)
Pre-print (https://arxiv.org/abs/2103.00712) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/4/CHAMP-Characterizing-Undesired-App-Behaviors-from-User-Comments-based-on-Market-Poli)

☆ CURE: Code-Aware Neural Machine Translation for Automatic Program Repair
Technical Track
Nan Jiang (https://conf.researchr.org/profile/icse-2021/nanjiang1), Thibaud Lutellier (https://conf.researchr.org/profile/icse-


Yuan Tian
Queens University, Kingston, Canada
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Jonathan Bell
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Nelly Bencomo
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Pre-print (http://arxiv.org/abs/2103.00073) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/50/CURE-Code-Aware-Neural-Machine-Translation-for-Automatic-Program-Repair)

☆ Can Program Synthesis be Used to Learn Merge Conflict Resolutions? An Empirical Analysis [Technical Track]
Rangeet Pan (https://conf.researchr.org/profile/icse-2021/rangeetpan), Vu Le (https://conf.researchr.org/profile/icse-2021/vule), Nachiappan Nagappan (https://conf.researchr.org/profile/icse-2021/nachiappannagappan), Sumit Gulwani (https://conf.researchr.org/profile/icse-2021/sumitgulwani), Shuvendu Lahiri (https://conf.researchr.org/profile/icse-2021/shuvendulahiri), Mike Kaufman (https://conf.researchr.org/profile/icse-2021/mikekaufman1)
Pre-print (http://arxiv.org/abs/2103.02004) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/109/Can-Program-Synthesis-be-Used-to-Learn-Merge-Conflict-Resolutions-An-Empirical-Analy)

☆ Code Prediction by Feeding Trees to Transformers [Technical Track]
Seohyun Kim (https://conf.researchr.org/profile/icse-2021/seohyunkim), Jinman Zhao (https://conf.researchr.org/profile/icse-2021/jinmanzhao), Yuchi Tian (https://conf.researchr.org/profile/icse-2021/yuchitian2), Satish Chandra (https://conf.researchr.org/profile/icse-2021/satishchandra)
Pre-print (https://arxiv.org/abs/2003.13848) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/132/Code-Prediction-by-Feeding-Trees-to-Transformers)

☆ CodeShovel: Constructing Method-Level Source Code Histories [ACM SIGSOFT Distinguished Paper] [Technical Track]
Felix Grund (https://conf.researchr.org/profile/icse-2021/felixgrund), Shaiful Alam Chowdhury (https://conf.researchr.org/profile/icse-2021/shaifulalamchowdhury), Nick Bradley (https://conf.researchr.org/profile/icse-2021/nicholasbradley), Braxton Hall (https://conf.researchr.org/profile/icse-2021/braxtonhall1), Reid Holmes (https://conf.researchr.org/profile/icse-2021/reidholmes)
Pre-print (https://www.cs.ubc.ca/~rtholmes/papers/icse_2021_grund.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/24/CodeShovel-Constructing-Method-Level-Source-Code-Histories)

☆ Containing Malicious Package Updates in npm with a Lightweight Permission System [Technical Track]
Gabriel Ferreira (https://conf.researchr.org/profile/icse-2021/gabrielferreira), Limin Jia (https://conf.researchr.org/profile/icse-2021/liminjia), Joshua Sunshine (https://conf.researchr.org/profile/icse-2021/joshuasunshine), Christian Kästner (https://conf.researchr.org/profile/icse-2021/christiankastner)
Pre-print (https://arxiv.org/abs/2103.05769) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/37/Containing-Malicious-Package-Updates-in-npm-with-a-Lightweight-Permission-System)

☆ Data-Driven Synthesis of a Provably Sound Side Channel Analysis [Technical Track]
Jingbo Wang (https://conf.researchr.org/profile/icse-2021/jingbowang), Chungha Sung (https://conf.researchr.org/profile/icse-2021/chunghasung), Mukund Raghothaman (https://conf.researchr.org/profile/icse-2021/mukundraghothaman), Chao Wang (https://conf.researchr.org/profile/icse-2021/chaowang3)
Pre-print (https://arxiv.org/abs/2102.06753) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/117/Data-Driven-Synthesis-of-a-Provably-Sound-Side-Channel-Analysis)

☆ Data-Oriented Differential Testing of Object-Relational Mapping Systems [Technical Track]
Thodoris Sotiropoulos (https://conf.researchr.org/profile/icse-2021/thodorissotiropoulos), Stefanos Chaliasos (https://conf.researchr.org/profile/icse-2021/stefanoschaliasos), Vaggelis Atlidakis (https://conf.researchr.org/profile/icse-2021/vaggelisatlidakis), Dimitris Mitropoulos (https://conf.researchr.org/profile/icse-2021/dimitrismitropoulos), Diomidis Spinellis (https://conf.researchr.org/profile/icse-2021/diomidisspinellis)
Pre-print (https://zenodo.org/record/4550429) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/53/Data-Oriented-Differential-Testing-of-Object-Relational-Mapping-Systems)

☆ DeepBackdoor: Black-box Backdoor Attack on Deep Learning Models through Neural Payload Injection [Technical Track]
Yuanchun Li (https://conf.researchr.org/profile/icse-2021/yuanchunli1), Jiayi Hua (https://conf.researchr.org/profile/icse-2021/jiayihua), Haoyu Wang (https://conf.researchr.org/profile/icse-2021/haoyuwang), Chunyang Chen (https://conf.researchr.org/profile/icse-2021/chunyangchen1), Yunxin Liu (https://conf.researchr.org/profile/icse-2021/yunxinliu)
Pre-print (https://arxiv.org/abs/2101.06896) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/2/DeepBackdoor-Black-box-Backdoor-Attack-on-Deep-Learning-Models-through-Neural-Payloa)

☆ DeepLV: Suggesting Log Levels Using Ordinal Based Neural Networks [Technical Track]
Zhenhao Li (https://conf.researchr.org/profile/icse-2021/zhenhaoli), Heng Li (https://conf.researchr.org/profile/icse-2021/hengli2), Tse-Hsun (Peter) Chen (https://conf.researchr.org/profile/icse-2021/tsehsunpeterchen), Weiyi Shang (https://conf.researchr.org/profile/icse-2021/weiyianshang)
Pre-print (https://petertsehsun.github.io/papers/DeepLV_icse2021.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/98/DeepLV-Suggesting-Log-Levels-Using-Ordinal-Based-Neural-Networks)

☆ DeepLocalize: Fault Localization for Deep Neural Networks [Technical Track]
Mohammad Wardat (https://conf.researchr.org/profile/icse-2021/mohammadwardat), Wei Le (https://conf.researchr.org/profile/icse-2021/weile), Hridesh Rajan (https://conf.researchr.org/profile/icse-2021/hridesh rajan)
Pre-print (https://arxiv.org/pdf/2103.03376.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/1/DeepLocalize-Fault-Localization-for-Deep-Neural-Networks)

☆ DepOwl: Detecting Dependency Bugs to Prevent Compatibility Failures [Technical Track]
Zhouyang Jia (https://conf.researchr.org/profile/icse-2021/zhouyangjia), Shanshan Li (https://conf.researchr.org/profile/icse-2021/shanshanli1), Tingting Yu (https://conf.researchr.org/profile/icse-2021/tingtingyu), Chen Zeng

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Pre-print (https://arxiv.org/abs/2102.08543) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/114/DepOwl-Detecting-Dependency-Bugs-to-Prevent-Compatibility-Failures)

☆ Distribution-Aware Testing of Neural Networks Using Generative Models Technical Track

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Pre-print (https://arxiv.org/pdf/2102.13602.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/83/Distribution-Aware-Testing-of-Neural-Networks-Using-Generative-Models)

☆ Do you really code? Designing and Evaluating Screening Questions for Online Surveys with Programmers Technical Track

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Pre-print (https://arxiv.org/abs/2103.04429) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/89/Do-you-really-code-Designing-and-Evaluating-Screening-Questions-for-Online-Surveys-w)

☆ Does mutation testing improve testing practices? Technical Track

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Pre-print (https://homes.cs.washington.edu/~rjust/publ/mutation_testing_practices_icse_2021.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/70/Does-mutation-testing-improve-testing-practices-)

☆ Domain-Specific Fixes for Flaky Tests with Wrong Assumptions on Underdetermined Specifications Technical Track

Peilun Zhang (https://conf.researchr.org/profile/icse-2021/peilunzhang1), Yanjie Jiang (https://conf.researchr.org/profile/icse-2021/yanjiejiang), Anjiang Wei (https://conf.researchr.org/profile/icse-2021/anjiangwei), Victoria Stodden (https://conf.researchr.org/profile/icse-2021/victoriastodden), Darko Marinov (https://conf.researchr.org/profile/icse-2021/darkomarinov), August Shi (https://conf.researchr.org/profile/icse-2021/augustshi)

Pre-print (http://sites.utexas.edu/august/files/2021/03/ICSE2021.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/84/Domain-Specific-Fixes-for-Flaky-Tests-with-Wrong-Assumptions-on-Underdetermined-Speci)

☆ Don't Do That! Hunting Down Visual Design Smells in Complex UIs against Design Guidelines Technical Track

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Pre-print (https://xin-xia.github.io/publication/icse213.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/87/Don-t-Do-That-Hunting-Down-Visual-Design-Smells-in-Complex-UIs-against-Design-Guidel)

☆ Early Life Cycle Software Defect Prediction. Why? How? Technical Track

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☆ Efficient Compiler Autotuning via Bayesian Optimization Technical Track

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Pre-print (https://drive.google.com/file/d/1uc5d6xn3EUYXWVV8VFSdtfZ9eqvTL3k1/view) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/96/Efficient-Compiler-Autotuning-via-Bayesian-Optimization)

☆ Enabling Software Resilience in GPGPU Applications via Partial Thread Protection Technical Track

Lishan Yang (https://conf.researchr.org/profile/icse-2021/lishanyang), Bin Nie (https://conf.researchr.org/profile/icse-2021/binnie), Adwait Jog (https://conf.researchr.org/profile/icse-2021/adwaitjog), Evgenia Smirni (https://conf.researchr.org/profile/icse-2021/evgeniasmirni)

Pre-print (https://arxiv.org/abs/2103.02825) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/28/Enabling-Software-Resilience-in-GPGPU-Applications-via-Partial-Thread-Protection)

☆ Enhancing Genetic Improvement of Software with Regression Test Selection Technical Track

Giovani Guizzo (https://conf.researchr.org/profile/icse-2021/giovaniguizzo), Justyna Petke (https://conf.researchr.org/profile/icse-2021/justynapetke), Federica Sarro (https://conf.researchr.org/profile/icse-2021/federicasarro), Mark Harman (https://conf.researchr.org/profile/icse-2021/markharman)

Pre-print (https://bit.ly/Guizzo-ICSE-2021) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/6/Enhancing-Genetic-Improvement-of-Software-with-Regression-Test-Selection)

☆ Evaluating SZZ Implementations Through a Developer-informed Oracle Technical Track

Giovanni Rosa (https://conf.researchr.org/profile/icse-2021/giovannirosa), Luca Pascarella (https://conf.researchr.org/profile/icse-2021/lucapascarella1), Simone Scalabrino (https://conf.researchr.org/profile/icse-2021/simonescalabrino), Rosalia Tufano

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Pre-print (https://arxiv.org/abs/2102.03300) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/42/Evaluating-SZZ-Implementations-Through-a-Developer-informed-Oracle)

☆ Evaluating Unit Testing Practices in R Packages — Technical Track

Melina Vidoni (https://conf.researchr.org/profile/icse-2021/melinavidoni)

Pre-print (https://melvidoni.rbind.io/publication/2021-rttd-icse/) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/5/Evaluating-Unit-Testing-Practices-in-R-Packages)

☆ EvoSpex: An Evolutionary Algorithm for Learning Postconditions — Technical Track

Facundo Molina (https://conf.researchr.org/profile/icse-2021/facundomolina), Pablo Ponzio (https://conf.researchr.org/profile/icse-2021/pabloponzio), Nazareno Aguirre (https://conf.researchr.org/profile/icse-2021/nazarenoaguirre), Marcelo F. Frias (https://conf.researchr.org/profile/icse-2021/marceloffrias)

Pre-print (https://arxiv.org/abs/2102.13569) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/134/EvoSpex-An-Evolutionary-Algorithm-for-Learning-Postconditions)

☆ Extracting Concise Bug-Fixing Patches from Human-Written Patches in Version Control Systems — Technical Track

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Pre-print (https://liuhuigmail.github.io/publishedPappers/ICSE2021.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/137/Extracting-Concise-Bug-Fixing-Patches-from-Human-Written-Patches-in-Version-Control-S)

☆ Extracting Rationale for Software Development Decisions—A Study of Python Email Archives — Technical Track

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Pre-print (https://arxiv.org/abs/2102.05232) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/95/Extracting-Rationale-for-Software-Development-Decisions-A-Study-of-Python-Email-Archi)

☆ FLACK: Counterexample-Guided Fault Localization for Alloy Models — Technical Track

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Pre-print (https://arxiv.org/abs/2102.10152) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/118/FLACK-Counterexample-Guided-Fault-Localization-for-Alloy-Models)

☆ Fast Outage Analysis of Large-scale Production Clouds with Service Correlation Mining — Technical Track

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Pre-print (https://arxiv.org/abs/2103.03649) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/66/Fast-Outage-Analysis-of-Large-scale-Production-Clouds-with-Service-Correlation-Mining)

☆ Fast Parametric Model Checking through Model Fragmentation — Technical Track

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Pre-print (https://arxiv.org/abs/2102.01490) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/102/Fast-Parametric-Model-Checking-through-Model-Fragmentation)

☆ Fast and Precise On-the-fly Patch Validation for All — Technical Track

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Pre-print (http://lingming.cs.illinois.edu/publications/icse2021.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/7/Fast-and-Precise-On-the-fly-Patch-Validation-for-All)

☆ Fault Localization with Code Coverage Representation Learning — Technical Track

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Pre-print (https://arxiv.org/pdf/2103.00270.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/93/Fault-Localization-with-Code-Coverage-Representation-Learning)

☆ Fine with ``1234''? An Analysis of SMS One-Time Password Randomness in Android Apps — Technical Track

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☆ FlakeFlagger: Predicting Flakiness Without Rerunning Tests Technical Track

Abdulrahman Alshammari (https://conf.researchr.org/profile/icse-2021/abdulrahmanalshammari), Christopher Morris (https://conf.researchr.org/profile/icse-2021/christophermorris), Michael Hilton (https://conf.researchr.org/profile/icse-2021/michaelhilton), Jonathan Bell (https://conf.researchr.org/profile/icse-2021/jonathanbell)

Pre-print (https://www.jonbell.net/preprint/icse21-flakeflagger.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/115/FlakeFlagger-Predicting-Flakiness-Without-Rerunning-Tests)

☆ Fuzzing Symbolic Expressions Technical Track

Luca Borzacchiello (https://conf.researchr.org/profile/icse-2021/lucaborzacchiello), Emilio Coppa (https://conf.researchr.org/profile/icse-2021/emiliocoppa), Camil Demetrescu (https://conf.researchr.org/profile/icse-2021/camildemetrescu)

Pre-print (https://arxiv.org/pdf/2102.06580) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/23/Fuzzing-Symbolic-Expressions)

☆ GUIGAN: Learning to Generate GUI Designs Using Generative Adversarial Networks Technical Track

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Pre-print (https://arxiv.org/abs/2101.09978) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/122/GUIGAN-Learning-to-Generate-GUI-Designs-Using-Generative-Adversarial-Networks)

☆ GenTree: Using Decision Trees to Learn Interactions for Configurable Software Technical Track

KimHao Nguyen (https://conf.researchr.org/profile/icse-2021/kimhaonguyen), ThanhVu Nguyen (https://conf.researchr.org/profile/icse-2021/thanhvunguyen)

Pre-print (https://arxiv.org/abs/2102.06872) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/80/GenTree-Using-Decision-Trees-to-Learn-Interactions-for-Configurable-Software)

☆ Graph-based Fuzz Testing for Deep Learning Inference Engines Technical Track

Weisi Luo (https://conf.researchr.org/profile/icse-2021/weisiluo), Xiaoyue Run (https://conf.researchr.org/profile/icse-2021/xiaoyuerun), Dong Chai (https://conf.researchr.org/profile/icse-2021/dongchai), Jiang Wang (https://conf.researchr.org/profile/icse-2021/jiangwang), Chunrong Fang (https://conf.researchr.org/profile/icse-2021/chunrongfang), Zhenyu Chen (https://conf.researchr.org/profile/icse-2021/zhenyuchen)

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☆ Growing A Test Corpus with Bonsai Fuzzing Technical Track

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Pre-print (http://arxiv.org/abs/2103.04388) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/63/Growing-A-Test-Corpus-with-Bonsai-Fuzzing)

☆ Hero: On the Chaos When PATH Meets Modules Technical Track ACM SIGSOFT Distinguished Paper

Ying Wang (https://conf.researchr.org/profile/icse-2021/yingwang), Liang Qiao (https://conf.researchr.org/profile/icse-2021/liangqiao), Chang Xu (https://conf.researchr.org/profile/icse-2021/changxu), Yepang Liu (https://conf.researchr.org/profile/icse-2021/yepangliu), Shing-Chi Cheung (https://conf.researchr.org/profile/icse-2021/shingchicheung), Na Meng (https://conf.researchr.org/profile/icse-2021/nameng), Hai Yu (https://conf.researchr.org/profile/icse-2021/haiyu), Zhiliang Zhu (https://conf.researchr.org/profile/icse-2021/zhiliangzhu)

Pre-print (https://arxiv.org/pdf/2102.12105.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/16/Hero-On-the-Chaos-When-PATH-Meets-Modules)

☆ How Developers Optimize Virtual Reality Applications: A Study of Optimization Commits in Open Source Unity Projects Technical Track

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Pre-print (http://xywang.100871.net/VRPerfBugStudyICSE21.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/100/How-Developers-Optimize-Virtual-Reality-Applications-A-Study-of-Optimization-Commits)

☆ How Gamification Affects Software Developers: Cautionary Evidence from a Natural Experiment on GitHub Technical Track

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☆ How to identify Boundary Conditions with Contrasty Metric? TECHNICAL TRACK

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Pre-print (http://arxiv.org/abs/2103.02384) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/20/How-to-identify-Boundary-Conditions-with-Contrasty-Metric-)

☆ IMGDroid: Detecting Image Loading Defects in Android Applications TECHNICAL TRACK

Wei Song (https://conf.researchr.org/profile/icse-2021/weisong), Mengqi Han (https://conf.researchr.org/profile/icse-2021/mengqihan), Jeff Huang (https://conf.researchr.org/profile/icse-2021/jeffhuang)

Link to publication (https://ieeexplore.ieee.org/document/9402123) DOI (https://doi.org/10.1109/ICSE43902.2021.00080) Pre-print (https://o2lab.github.io/p/imgdroid.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/27/IMGDroid-Detecting-Image-Loading-Defects-in-Android-Applications)

☆ IdBench: Evaluating Semantic Representations of Identifier Names in Source Code TECHNICAL TRACK

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Pre-print (http://software-lab.org/publications/icse2021_IdBench.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/3/IdBench-Evaluating-Semantic-Representations-of-Identifier-Names-in-Source-Code)

☆ Identifying Key Features from App User Reviews TECHNICAL TRACK

Huayao Wu (https://conf.researchr.org/profile/icse-2021/huayaowu), Wenjun Deng (https://conf.researchr.org/profile/icse-2021/wenjundeng), Xintao Niu (https://conf.researchr.org/profile/icse-2021/xintaoniu1), Changhai Nie (https://conf.researchr.org/profile/icse-2021/changhainie1)

Pre-print (https://gist.nju.edu.cn/papers/icse2021.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/76/Identifying-Key-Features-from-App-User-Reviews)

☆ If It's Not Secure, It Should Not Compile: Preventing DOM-Based XSS in Large-Scale Web Development with API Hardening TECHNICAL TRACK

Pei Wang (https://conf.researchr.org/profile/icse-2021/peiwang), Julian Bangert (https://conf.researchr.org/profile/icse-2021/julianbangert), Christoph Kern (https://conf.researchr.org/profile/icse-2021/christophkern)

Pre-print (https://research.google/pubs/pub49950/) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/111/If-It-s-Not-Secure-It-Should-Not-Compile-Preventing-DOM-Based-XSS-in-Large-Scale-We)

☆ Improving Fault Localization by Integrating Value and Predicate Based Causal Inference Techniques TECHNICAL TRACK ACM SIGSOFT DISTINGUISHED PAPER

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Pre-print (https://arxiv.org/abs/2102.06292) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/72/Improving-Fault-Localization-by-Integrating-Value-and-Predicate-Based-Causal-Inferenc)

☆ InferCode: Self-Supervised Learning of Code Representations by Predicting Subtrees TECHNICAL TRACK

Nghi D. Q. Bui (https://conf.researchr.org/profile/icse-2021/nghibui), Yijun Yu (https://conf.researchr.org/profile/icse-2021/yijunyu), Lingxiao Jiang (https://conf.researchr.org/profile/icse-2021/lingxiaojiang)

Pre-print (https://bdqnghi.github.io/files/ICSE_2021.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/97/InferCode-Self-Supervised-Learning-of-Code-Representations-by-Predicting-Subtrees)

☆ Input Algebras TECHNICAL TRACK

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Pre-print (https://publications.cispa.saarland/3208/7/gopinath2021input.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/49/Input-Algebras)

☆ Interface Compliance of Inline Assembly: Automatically Check, Patch and Refine TECHNICAL TRACK ACM SIGSOFT DISTINGUISHED PAPER

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Pre-print (https://arxiv.org/pdf/2102.07485.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/82/Interface-Compliance-of-Inline-Assembly-Automatically-Check-Patch-and-Refine)

☆ Interpretation-enabled Software Reuse Detection Based on a Multi-Level Birthmark Model Technical Track
Xi Xu (https://conf.researchr.org/profile/icse-2021/xixu), Qinghua Zheng (https://conf.researchr.org/profile/icse-2021/qinghuazheng), Zheng Yan (https://conf.researchr.org/profile/icse-2021/zhengyan1), Ming Fan (https://conf.researchr.org/profile/icse-2021/mingfan1), Ang Jia (https://conf.researchr.org/profile/icse-2021/angjia), Ting Liu (https://conf.researchr.org/profile/icse-2021/tingliu)
Pre-print (https://arxiv.org/abs/2103.10126) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/8/Interpretation-enabled-Software-Reuse-Detection-Based-on-a-Multi-Level-Birthmark-Mode)

☆ IoT Bugs and Development Challenges Technical Track
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Pre-print (http://ece.ubc.ca/~amesbah/resources/papers/iot-icse21.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/67/IoT-Bugs-and-Development-Challenges)

☆ It Takes Two to Tango: Combining Visual and Textual Information for Detecting Duplicate Video-Based Bug Reports Technical Track
Nathan Cooper (https://conf.researchr.org/profile/icse-2021/nathancooper), Carlos Bernal-Cárdenas (https://conf.researchr.org/profile/icse-2021/carlosbernalcardenas), Oscar Chaparro (https://conf.researchr.org/profile/icse-2021/oscarchaparro), Kevin Moran (https://conf.researchr.org/profile/icse-2021/kevinmoran), Denys Poshyvanyk (https://conf.researchr.org/profile/icse-2021/denysposhyvanyk)
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☆ JEST: N+1-version Differential Testing of Both JavaScript Engines and Specification Technical Track ACM SIGSOFT Distinguished Paper
Jihyeok Park (https://conf.researchr.org/profile/icse-2021/jihyeokpark), Seungmin An (https://conf.researchr.org/profile/icse-2021/seungminan), Dongjun Youn (https://conf.researchr.org/profile/icse-2021/dongjunyoun1), Gyeongwon Kim (https://conf.researchr.org/profile/icse-2021/gyeongwonkim), Sukyoung Ryu (https://conf.researchr.org/profile/icse-2021/sukyoungryu)
Pre-print (https://arxiv.org/abs/2102.07498) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/43/JEST-N-1-version-Differential-Testing-of-Both-JavaScript-Engines-and-Specification)

☆ JUSTGen: Effective Test Generation for Unspecified JNI Behaviors on JVMs Technical Track
Sungjae Hwang (https://conf.researchr.org/profile/icse-2021/sungjaehwang), Sungho Lee (https://conf.researchr.org/profile/icse-2021/sungholee1), Jihoon Kim (https://conf.researchr.org/profile/icse-2021/jihoonkim), Sukyoung Ryu (https://conf.researchr.org/profile/icse-2021/sukyoungryu)
Pre-print (https://sjmini.github.io/publication/hwangjustgen.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/92/JUSTGen-Effective-Test-Generation-for-Unspecified-JNI-Behaviors-on-JVMs)

☆ Layout and Image Recognition Driving Cross-Platform Automated Mobile Testing Technical Track
Shengcheng Yu (https://conf.researchr.org/profile/icse-2021/shengchengyu), Chunrong Fang (https://conf.researchr.org/profile/icse-2021/chunrongfang), Yexiao Yun (https://conf.researchr.org/profile/icse-2021/yexiaoyun), Yang Feng (https://conf.researchr.org/profile/icse-2021/yangfeng)
Pre-print (https://arxiv.org/abs/2008.05182) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/75/Layout-and-Image-Recognition-Driving-Cross-Platform-Automated-Mobile-Testing)

☆ Leaving My Fingerprints: Motivations and Challenges of Contributing to OSS for Social Good Technical Track
Yu Huang (https://conf.researchr.org/profile/icse-2021/yuhuang), Denae Ford (https://conf.researchr.org/profile/icse-2021/denaeford), Thomas Zimmermann (https://conf.researchr.org/profile/icse-2021/tomzimmermann)
Pre-print (http://denaeford.me/papers/OSS4SG-ICSE-2021.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/52/Leaving-My-Fingerprints-Motivations-and-Challenges-of-Contributing-to-OSS-for-Social)

☆ Measuring Discrimination to Boost Comparative Testing for Multiple Deep Learning Models Technical Track
Linghan Meng (https://conf.researchr.org/profile/icse-2021/linghanmeng1), Yanhui Li (https://conf.researchr.org/profile/icse-2021/yanhuili1), Lin Chen (https://conf.researchr.org/profile/icse-2021/linchen), Zhi Wang (https://conf.researchr.org/profile/icse-2021/zhiwang), Di Wu (https://conf.researchr.org/profile/icse-2021/diwu1), Yuming Zhou (https://conf.researchr.org/profile/icse-2021/yumingzhou1), Baowen Xu (https://conf.researchr.org/profile/icse-2021/baowenxu)
Pre-print (http://arxiv.org/abs/2103.04333) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/105/Measuring-Discrimination-to-Boost-Comparative-Testing-for-Multiple-Deep-Learning-Mode)

☆ MuDelta: Delta-Oriented Mutation Testing at Commit Time Technical Track
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Pre-print (https://sites.google.com/site/mikepapadakis/RelevantMutantPrediction%20%281%29.pdf?attredirects=0&d=1) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/135/MuDelta-Delta-Oriented-Mutation-Testing-at-Commit-Time)

☆ On Indirectly Dependent Documentation in the Context of Code Evolution: A Study

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Technical Track

Pre-print (http://pag.iiitd.edu.in/sites/default/files/Sondhi21_DocDependence_preprint_0.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/38/On-Indirectly-Dependent-Documentation-in-the-Context-of-Code-Evolution-A-Study)

☆ On the Naming of Methods: A Survey of Professional Developers

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Technical Track

Pre-print (http://www.cs.kent.edu/~jmaletic/papers/ICSE2021.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/32/On-the-Naming-of-Methods-A-Survey-of-Professional-Developers)

☆ Onboarding vs. Diversity, Productivity and Quality -- Empirical Study of the OpenStack Ecosystem

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Technical Track

Link to publication (https://mcis.cs.queensu.ca/publications.html)

Pre-print (https://mcis.cs.queensu.ca/publications/2021/icse_armstrong.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/119/Onboarding-vs-Diversity-Productivity-and-Quality-Empirical-Study-of-the-OpenStac)

☆ Operation is the hardest teacher: estimating DNN accuracy looking for mispredictions

Antonio Guerriero (https://conf.researchr.org/profile/icse-2021/antonioguerriero), Roberto Pietrantuono (https://conf.researchr.org/profile/icse-2021/robertopietrantuono), Stefano Russo (https://conf.researchr.org/profile/icse-2021/stefanorusso)

Technical Track

Pre-print (https://arxiv.org/abs/2102.04287) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/59/Operation-is-the-hardest-teacher-estimating-DNN-accuracy-looking-for-mispredictions)

☆ Playing Planning Poker in Crowds: Human Computation of Software Effort Estimates

Mohammed Alhamed (https://conf.researchr.org/profile/icse-2021/mohammedalhamed), Tim Storer (https://conf.researchr.org/profile/icse-2021/timstorer)

Technical Track

Pre-print (http://eprints.gla.ac.uk/234713/1/234713.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/46/Playing-Planning-Poker-in-Crowds-Human-Computation-of-Software-Effort-Estimates)

☆ Prioritize Crowdsourced Test Reports via Deep Screenshot Understanding

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Technical Track

Pre-print (https://arxiv.org/abs/2102.09747) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/35/Prioritize-Crowdsourced-Test-Reports-via-Deep-Screenshot-Understanding)

☆ Prioritizing Test Inputs for Deep Neural Networks via Mutation Analysis

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Technical Track

Pre-print (https://drive.google.com/file/d/1X78cV7TbWNG0DaLcdYkEk2oeK91p3OXa/view) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/51/Prioritizing-Test-Inputs-for-Deep-Neural-Networks-via-Mutation-Analysis)

☆ Program Comprehension and Code Complexity Metrics: An fMRI Study

Norman Peitek (https://conf.researchr.org/profile/icse-2021/normanpeitek), Sven Apel (https://conf.researchr.org/profile/icse-2021/svenapel), Chris Parnin (https://conf.researchr.org/profile/icse-2021/chrisparnin1), André Brechmann (https://conf.researchr.org/profile/icse-2021/andrebrechmann1), Janet Siegmund (https://conf.researchr.org/profile/icse-2021/janetsiegmund)

ACM SIGSOFT Distinguished Paper

Technical Track

Pre-print (https://www.tu-chemnitz.de/informatik/ST/publications/papers/ICSE21.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/10/Program-Comprehension-and-Code-Complexity-Metrics-An-fMRI-Study)

☆ PyART: Python API Recommendation in Real-Time

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Pre-print (https://arxiv.org/abs/2102.04706) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/104/PyART-Python-API-Recommendation-in-Real-Time)

☆ PyCG: Practical Call Graph Generation in Python Technical Track
Vitalis Salis (https://conf.researchr.org/profile/icse-2021/vitalissalis), Thodoris Sotiropoulos (https://conf.researchr.org/profile/icse-2021/thodorissotiropoulos), Panos Louridas (https://conf.researchr.org/profile/icse-2021/panoslouridas), Diomidis Spinellis (https://conf.researchr.org/profile/icse-2021/diomidisspinellis), Dimitris Mitropoulos (https://conf.researchr.org/profile/icse-2021/dimitrismitropoulos)
Pre-print (https://arxiv.org/abs/2103.00587) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/39/PyCG-Practical-Call-Graph-Generation-in-Python)

☆ RAICC: Revealing Atypical Inter-Component Communication in Android Apps Technical Track
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DOI (https://doi.org/10.5281/zenodo.4442663) Pre-print (https://arxiv.org/abs/2012.09916) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/62/RAICC-Revealing-Atypical-Inter-Component-Communication-in-Android-Apps)

☆ Reducing DNN Properties to Enable Falsification with Adversarial Attacks Technical Track
David Shriver (https://conf.researchr.org/profile/icse-2021/davidshriver), Sebastian Elbaum (https://conf.researchr.org/profile/icse-2021/sebastianelbaum1), Matthew B Dwyer (https://conf.researchr.org/profile/icse-2021/matthewdwyer)
Link to publication (https://ieeexplore.ieee.org/abstract/document/9402125) DOI (https://doi.org/10.1109/ICSE43902.2021.00036) Pre-print (https://davidshriver.me/files/publications/ICSE21-DNNF.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/56/Reducing-DNN-Properties-to-Enable-Falsification-with-Adversarial-Attacks)

☆ Relating Reading, Visualization, and Coding for New Programmers: A Neuroimaging Study Technical Track
Madeline Endres (https://conf.researchr.org/profile/icse-2021/madelineendres), Zachary Karas (https://conf.researchr.org/profile/icse-2021/zacharykaras), Xiaosu Hu (https://conf.researchr.org/profile/icse-2021/xiaosuhu), Ioulia Kovelman (https://conf.researchr.org/profile/icse-2021/iouliakovelman), Westley Weimer (https://conf.researchr.org/profile/icse-2021/westleyweimer)
Pre-print (https://arxiv.org/abs/2102.12376) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/17/Relating-Reading-Visualization-and-Coding-for-New-Programmers-A-Neuroimaging-Study)

☆ Representation of Developer Expertise in Open Source Software Technical Track
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Pre-print (https://arxiv.org/abs/2005.10176) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/88/Representation-of-Developer-Expertise-in-Open-Source-Software)

☆ Resource-Guided Configuration Space Reduction for Deep Learning Models Technical Track
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Link to publication (https://ieeexplore.ieee.org/document/9402095) DOI (https://doi.org/10.1109/ICSE43902.2021.00028) Pre-print (https://www.microsoft.com/en-us/research/uploads/prod/2021/02/dnnsat.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/120/Resource-Guided-Configuration-Space-Reduction-for-Deep-Learning-Models)

☆ Restoring Execution Environments of Jupyter Notebooks Technical Track
Jiawei Wang (https://conf.researchr.org/profile/icse-2021/jiaweiwang), Li Li (https://conf.researchr.org/profile/icse-2021/lili), Andreas Zeller (https://conf.researchr.org/profile/icse-2021/andreaszeller)
Pre-print (https://arxiv.org/abs/2103.02959) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/77/Restoring-Execution-Environments-of-Jupyter-Notebooks)

☆ RobOT: Robustness-Oriented Testing for Deep Learning Systems Technical Track
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Pre-print (https://arxiv.org/abs/2102.05913) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/108/RobOT-Robustness-Oriented-Testing-for-Deep-Learning-Systems)


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☆ SOAR: A Synthesis Approach for Data Science API Refactoring Technical Track
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Pre-print (https://arxiv.org/pdf/2102.06726.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/69/SOAR-A-Synthesis-Approach-for-Data-Science-API-Refactoring)

☆ Same File, Different Changes: The Potential of Meta-Maintenance on GitHub Technical Track
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DOI (https://doi.org/10.1109/ICSE43902.2021.00076) Pre-print (https://arxiv.org/abs/2102.06355) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/125/Same-File-Different-Changes-The-Potential-of-Meta-Maintenance-on-GitHub)

☆ Scalable Quantitative Verification For Deep Neural Networks Technical Track
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Pre-print (https://arxiv.org/abs/2002.06864) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/90/Scalable-Quantitative-Verification-For-Deep-Neural-Networks)

☆ Seamless Variability Management With the Virtual Platform Technical Track
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Pre-print (https://arxiv.org/abs/2103.00437) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/103/Seamless-Variability-Management-With-the-Virtual-Platform)

☆ Self-Checking Deep Neural Networks in Deployment Technical Track
Yan Xiao (https://conf.researchr.org/profile/icse-2021/yanxiao1), Ivan Beschastnikh (https://conf.researchr.org/profile/icse-2021/ivanbeschastnikh), David Rosenblum (https://conf.researchr.org/profile/icse-2021/davidrosenblum), Changsheng Sun (https://conf.researchr.org/profile/icse-2021/changshengsun), Sebastian Elbaum (https://conf.researchr.org/profile/icse-2021/sebastianelbaum1), Yun Lin (https://conf.researchr.org/profile/icse-2021/yunlin), Jin Song Dong (https://conf.researchr.org/profile/icse-2021/jinsongdong)
Pre-print (https://arxiv.org/abs/2103.02371) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/14/Self-Checking-Deep-Neural-Networks-in-Deployment)

☆ Semantic Patches for Adaptation of JavaScript Programs to Evolving Libraries Technical Track
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Pre-print (https://cs.au.dk/~amoeller/papers/jsfix/paper.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/11/Semantic-Patches-for-Adaptation-of-JavaScript-Programs-to-Evolving-Libraries)

☆ Semantic Web Accessibility Testing via Hierarchical Visual Analysis Technical Track
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Pre-print (http://ece.ubc.ca/~amesbah/resources/papers/axeray-icse21.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/138/Semantic-Web-Accessibility-Testing-via-Hierarchical-Visual-Analysis)

☆ Semi-supervised Log-based Anomaly Detection via Probabilistic Label Estimation Technical Track
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Pre-print (https://drive.google.com/file/d/1H4p-fv1KY81HfbCDsrf3tX8ZP2p7xqp8/view) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/85/Semi-supervised-Log-based-Anomaly-Detection-via-Probabilistic-Label-Estimation)

☆ Shipwright: A Human-in-the-Loop System for Dockerfile Repair
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Pre-print (https://arxiv.org/abs/2103.02591) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/19/Shipwright-A-Human-in-the-Loop-System-for-Dockerfile-Repair)

TECHNICAL TRACK

☆ Siri, Write the Next Method

TECHNICAL TRACK

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Pre-print (https://arxiv.org/abs/2103.04586) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/61/Siri-Write-the-Next-Method)

☆ Smart Contract Security: a Practitioners' Perspective

TECHNICAL TRACK

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Pre-print (https://arxiv.org/abs/2102.10963) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/12/Smart-Contract-Security-a-Practitioners-Perspective)

☆ Studying Test Annotation Maintenance in the Wild

TECHNICAL TRACK

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Link to publication (https://petertsehsun.github.io/papers/testAnnotation_icse2021.pdf) Pre-print (https://petertsehsun.github.io/papers/testAnnotation_icse2021.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/91/Studying-Test-Annotation-Maintenance-in-the-Wild)

☆ Studying the Usage of Text-To-Text Transfer Transformer to Support Code-Related Tasks

TECHNICAL TRACK

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Pre-print (https://arxiv.org/abs/2102.02017) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/127/Studying-the-Usage-of-Text-To-Text-Transfer-Transformer-to-Support-Code-Related-Tasks)

☆ Supporting Quality Assurance with Automated Process-Centric Quality Constraints Checking

TECHNICAL TRACK

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Pre-print (https://epub.jku.at/obvulioa/download/pdf/5846429?originalFilename=true) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/26/Supporting-Quality-Assurance-with-Automated-Process-Centric-Quality-Constraints-Check)

☆ Sustainable Solving: Reducing The Memory Footprint of IFDS-Based Data Flow Analyses Using Intelligent Garbage Collection

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Pre-print (http://publica.fraunhofer.de/documents/N-624552.html) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/113/Sustainable-Solving-Reducing-The-Memory-Footprint-of-IFDS-Based-Data-Flow-Analyses-U)

☆ Synthesizing Object State Transformers for Dynamic Software Updates

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Pre-print (https://zelinzhao.github.io/pasta/artifact/pasta-icse2021.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/106/Synthesizing-Object-State-Transformers-for-Dynamic-Software-Updates)

☆ Technical Leverage in a Software Ecosystem: Development Opportunities and Security Risks

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Pre-print (https://assuremoss.eu/en/resources/Papers/2021-ICSE) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/123/Technical-Leverage-in-a-Software-Ecosystem-Development-Opportunities-and-Security-Ri)

☆ Testing Machine Translation via Referential Transparency

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Pre-print (https://arxiv.org/abs/2004.10361) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/9/Testing-Machine-Translation-via-Referential-Transparency)

☆ The Mind Is a Powerful Place: How Showing Code Comprehensibility Metrics Influences Code Understanding
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Pre-print (https://arxiv.org/abs/2012.09590) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/44/The-Mind-Is-a-Powerful-Place-How-Showing-Code-Comprehensibility-Metrics-Influences-C)

☆ The Shifting Sands of Motivation: Revisiting What Drives Contributors in Open Source
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Pre-print (https://arxiv.org/abs/2101.10291) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/136/The-Shifting-Sands-of-Motivation-Revisiting-What-Drives-Contributors-in-Open-Source)

☆ Too Quiet in the Library: An Empirical Study of Security Updates in Android Apps' Native Code
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Link to publication (https://nebelwelt.net/files/21ICSE.pdf) DOI (https://doi.org/10.1109/ICSE43902.2021.00122) Pre-print (https://arxiv.org/abs/1911.09716) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/13/Too-Quiet-in-the-Library-An-Empirical-Study-of-Security-Updates-in-Android-Apps-Nat)

☆ Towards Automating Code Review Activities
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Pre-print (https://arxiv.org/abs/2101.02518) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/74/Towards-Automating-Code-Review-Activities)

☆ Trace-Checking CPS Properties: Bridging the Cyber-Physical Gap
Technical Track
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Pre-print (http://hdl.handle.net/10993/46198) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/34/Trace-Checking-CPS-Properties-Bridging-the-Cyber-Physical-Gap)

☆ Traceability Transformed: Generating more Accurate Links with Pre-Trained BERT Models
Technical Track ACM SIGSOFT Distinguished Paper
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Pre-print (http://arxiv.org/abs/2102.04411) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/126/Traceability-Transformed-Generating-more-Accurate-Links-with-Pre-Trained-BERT-Models)

☆ TransRegex: Multi-modal Regular Expression Synthesis by Generate-and-Repair
Technical Track
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Pre-print (http://arxiv.org/abs/2012.15489) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/107/TransRegex-Multi-modal-Regular-Expression-Synthesis-by-Generate-and-Repair)

☆ Understanding Bounding Functions in Safety-Critical UAV Software
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Xiaozhou Liang (https://conf.researchr.org/profile/icse-2021/xiaozhouliang), John Henry Burns (https://conf.researchr.org/profile/icse-2021/johnhenryburns), Joseph Sanchez (https://conf.researchr.org/profile/icse-2021/josephsanchez), Karthik Dantu (https://conf.researchr.org/profile/icse-2021/karthikdantu), Lukasz Ziarek (https://conf.researchr.org/profile/icse-2021/lukaszziarek), Yu David Liu (https://conf.researchr.org/profile/icse-2021/yudavidliu1)
Pre-print (https://arxiv.org/abs/2102.07020) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/30/Understanding-Bounding-Functions-in-Safety-Critical-UAV-Software)

☆ Unrealizable Cores for Reactive Systems Specifications
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DOI (https://doi.org/10.1109/ICSE43902.2021.00016) Pre-print (http://arxiv.org/abs/2103.00297) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/116/Unrealizable-Cores-for-Reactive-Systems-Specifications)

Technical Track

☆ Using Domain-specific Corpora for Improved Handling of Ambiguity in Requirements

Technical Track

Saad Ezzini (https://conf.researchr.org/profile/icse-2021/saadezzini), Sallam Abualhaija (https://conf.researchr.org/profile/icse-2021/sallamabualhaija), Chetan Arora (https://conf.researchr.org/profile/icse-2021/chetanarora), Mehrdad Sabetzadeh (https://conf.researchr.org/profile/icse-2021/mehrdadsabetzadeh), Lionel C. Briand (https://conf.researchr.org/profile/icse-2021/lionelbriand1)

Pre-print (https://orbilu.uni.lu/retrieve/79323/86863/EAASB-ICSE21.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/41/Using-Domain-specific-Corpora-for-Improved-Handling-of-Ambiguity-in-Requirements)

☆ Verifying Determinism in Sequential Programs

Technical Track

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Pre-print (https://homes.cs.washington.edu/~mernst/pubs/determinism-icse2021.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/79/Verifying-Determinism-in-Sequential-Programs)

☆ We'll Fix It in Post: What Do Bug Fixes in Video Game Update Notes Tell Us?

Technical Track

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Pre-print (https://arxiv.org/abs/2103.03997) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/73/We-ll-Fix-It-in-Post-What-Do-Bug-Fixes-in-Video-Game-Update-Notes-Tell-Us-)

☆ What Makes a Great Maintainer of Open Source Projects?

ACM SIGSOFT Distinguished Paper

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Pre-print (http://gustavopinto.org/lost+found/icse2021.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/58/What-Makes-a-Great-Maintainer-of-Open-Source-Projects-)

☆ What helped, and what did not? An Evaluation of the Strategies to Improve Continuous Integration

Technical Track

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Pre-print (https://arxiv.org/abs/2102.06666) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/78/What-helped-and-what-did-not-An-Evaluation-of-the-Strategies-to-Improve-Continuous-)

☆ White-Box Analysis over Machine Learning: Modeling Performance of Configurable Systems

Technical Track

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Pre-print (https://arxiv.org/abs/2101.05362) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/33/White-Box-Analysis-over-Machine-Learning-Modeling-Performance-of-Configurable-System)

☆ White-Box Performance-Influence Models: A Profiling and Learning Approach

Technical Track

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Pre-print (https://arxiv.org/abs/2102.06395) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/112/White-Box-Performance-Influence-Models-A-Profiling-and-Learning-Approach)

☆ Why Security Defects Go Unnoticed during Code Reviews? A Case-Control Study of the Chromium OS Project

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Pre-print (https://arxiv.org/pdf/2102.06909.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/47/Why-Security-Defects-Go-Unnoticed-during-Code-Reviews-A-Case-Control-Study-of-the-Ch)

☆ Why don't Developers Detect Improper Input Validation?'; DROP TABLE Papers; --

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Pre-print (https://arxiv.org/pdf/2102.06251.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/101/Why-don-t-Developers-Detect-Improper-Input-Validation-DROP-TABLE-Papers-)

☆ "Do this! Do that!, And nothing will happen" Do specifications lead to securely stored passwords?

Joseph Hallett (https://conf.researchr.org/profile/icse-2021/josephhallett), Nikhil Patnaik (https://conf.researchr.org/profile/icse-2021/nikhilpatnaik), Benjamin Shreeve (https://conf.researchr.org/profile/icse-2021/benjaminshreeve), Awais Rashid (https://conf.researchr.org/profile/icse-2021/awaisrashid) Technical Track

Pre-print (https://arxiv.org/abs/2102.09790) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/124/-Do-this-Do-that-And-nothing-will-happen-Do-specifications-lead-to-securely-store)

☆ "How Was Your Weekend?" Software Development Teams Working From Home During COVID-19

Courtney Miller  Technical Track  ACM SIGSOFT Distinguished Paper

(https://conf.researchr.org/profile/icse-2021/courtneymiller), Paige Rodeghero (https://conf.researchr.org/profile/icse-2021/paigerodeghero1), Margaret-Anne Storey (https://conf.researchr.org/profile/icse-2021/margaretannestorey), Denae Ford (https://conf.researchr.org/profile/icse-2021/denaeford), Thomas Zimmermann (https://conf.researchr.org/profile/icse-2021/tomzimmermann)

Pre-print (https://arxiv.org/pdf/2101.05877.pdf) Media Attached (https://conf.researchr.org/details/icse-2021/icse-2021-papers/55/-How-Was-Your-Weekend-Software-Development-Teams-Working-From-Home-During-COVID-19)

(https://conf.researchr.org/profile/icse-2021/nicolasanquetil)

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