

ESEC/FSE 2022 (series) /

Industry Paper

ESEC/FSE 2022

Accepted Papers

Title

About

 $\label{lem:condition} \mbox{Achievement Unlocked: A Case Study on Gamifying DevOps Practices in Industry Patrick Ayoup, Diego Costa, Emad Shihab$

Accepted Papers

All You Need Is Logs: Improving Code Completion by Learning from Anonymous IDE Usage Logs Vitaliy Bibaev, Alexey Kalina, Vadim Lomshakov, Yaroslav Golubev, Alexander Bezzubov, Nikita Povarov, Timofey Bryksin DOI Pre-print

An Empirical Investigation of Missing Data Handling in Cloud Node Failure Prediction Minghua Ma, Yudong Liu, Yuang Tong, Haozhe Li, Pu Zhao, Yong Xu, Hongyu Zhang, Shilin He, Lu Wang, Yingnong Dang, Saravanakumar Rajmohan, Qingwei Lin

An Empirical Study of Deep Transfer Learning-Based Program Repair for Kotlin Projects Misoo Kim, Youngkyoung Kim, Hohyeon Jeong, Jinseok Heo, Sungoh Kim, Hyunhee Chung, Eunseok Lee

An Empirical Study of Log Analysis at Microsoft

Shilin He, Xu Zhang, Pinjia He, Yong Xu, Liqun Li, Yu Kang, Minghua Ma, Yining Wei, Yingnong Dang, Saravanakumar Rajmohan, Qingwei Lin

Are Elevator Software Robust against Uncertainties? Results and Experiences from an Industrial Case Study

Liping Han, Tao Yue, Shaukat Ali, Aitor Arrieta, Maite Arratibel DOI

AutoTSG: Learning and Synthesis for Incident Troubleshooting

Manish Shetty, Chetan Bansal, Sai Pramod Upadhyayula, Arjun Radhakrishna, Anurag Gupta

DOI Pre-print

Demystifying "Removed Reviews" in iOS App Store

Liu Wang, Haoyu Wang, Xiapu Luo, Tao Zhang, Shangguang Wang, Xuanzhe Liu DOI

Discovering Feature Flag Interdependencies in Microsoft Office

Michael Schröder, Katja Kevic , Dan Gopstein, Brendan Murphy, Jennifer Beckmann DOI Pre-print Media Attached

Exploring and Evaluating Personalized Models for Code Generation

Andrei Zlotchevski, Dawn Drain, Alexey Svyatkovskiy, Colin Clement, Neel Sundaresan, Michele Tufano DOI Pre-print

FlakeRepro: Automated and Efficient Reproduction of Concurrency-Related Flaky Tests

Tanakorn Leesatapornwongsa, Xiang Ren, Suman Nath

Group-Based Corpus Scheduling for Parallel Fuzzing

Taotao Gu, Xiang Li, Shuaibing Lu, Jianwen Tian, Yuanping Nie, Xiaohui Kuang, Zhechao Lin, Chenyifan Liu, Jie Liang, Yu Jiang DOI





Microsoft Research





















Tiktok Inc.

Title

Improving ML-Based Information Retrieval Software with User-Driven Functional Testing and Defect Class Analysis

Junjie Zhu, Teng Long, Wei Wang, Atif Memon

Incorporating Domain Knowledge through Task Augmentation for Front-End JavaScript Code

Sijie Shen, Xiang Zhu, Yihong Dong, Qizhi Guo, Yankun Zhen, Ge Li

Industry Experiences with Large-Scale Refactoring

James Ivers, Robert Nord, Ipek Ozkaya, Chris Seifried, Christopher Steven Timperley, Marouane Kessentini

Industry Practice of Configuration Auto-tuning for Cloud Applications and Services Runzhe Wang, Qinglong Wang, Yuxi Hu, Heyuan Shi, Yuheng Shen, Yu Zhan, Ying Fu, Zheng Liu, Xiaohai Shi, Yu Jiang

Input Splitting for Cloud-Based Static Application Security Testing Platforms

Maria Christakis, Thomas Cottenier, Antonio Filieri, Linghui Luo, Muhammad Numair Mansur, Lee Pike, Nico Rosner, Martin Schäf, Aritra Sengupta, Willem Visser

Investigating and Improving Log Parsing in Practice

Ying Fu, Meng Yan, Jian Xu, Jianguo Li, Zhongxin Liu, Xiaohong Zhang, Dan Yang

Leveraging Test Plan Quality to Improve Code Review Efficacy

Lawrence Chen, Rui Abreu, Tobi Akomolede, Peter Rigby, Satish Chandra, Nachiappan Nagappan

Metadata-Based Retrieval for Resolution Recommendation in AlOps

Harshit Kumar, Ruchi Mahindru, Debanjana Kar

Nalanda: A Socio-technical Graph Platform for Building Software Analytics Tools at Enterprise Scale Chandra Sekhar Maddila, Suhas Shanbhogue, Apoorva Agrawal, Thomas Zimmermann, Chetan Bansal, Nicole Forsgren, Divyanshu Agrawal, Kim Herzig, Arie van Deursen

Sometimes You Have to Treat the Symptoms: Tackling Model Drift in an Industrial Clone-and-Own Software Product Line

Christof Tinnes, Wolfgang Rössler, Uwe Hohenstein, Torsten Kühn, Andreas Biesdorf, Sven Apel

Testing of Machine Learning Models with Limited Samples: An Industrial Vacuum Pumping Application Ayan Chatterjee, Bestoun S. Ahmed, Erik Hallin, Anton Engman

Towards Developer-Centered Automatic Program Repair: Findings from Bloomberg

Emily Winter, Vesna Nowack, David Bowes, Steve Counsell, Tracy Hall, Saemundur Haraldsson, John R. Woodward, Serkan Kirbas, Etienne Windels, Olayori McBello, Abdurahman Atakishiyev, Kevin Kells, Matthew Pagano

Trace Analysis Based Microservice Architecture Measurement

Xin Peng, Chenxi Zhang, Zhongyuan Zhao, Akasaka Isami, Xiaofeng Guo, Yunna Cui

Uncertainty-Aware Transfer Learning to Evolve Digital Twins for Industrial Elevators

Xu Qinghua, Shaukat Ali, Tao Yue, Maite Arratibel

Understanding Automated Code Review Process and Developer Experience in Industry

Hyungjin Kim, Yonghwi Kwon, Sangwoo Joh, Hyukin Kwon, Yeonhee Ryou, Taeksu Kim

Understanding Why We Cannot Model How Long a Code Review Will Take: An Industrial Case Study Lawrence Chen, Peter Rigby, Nachiappan Nagappan

Unite: An Adapter for Transforming Analysis Tools to Web Services via OSLC

Ondřej Vašíček, Jan Fiedor, Tomáš Kratochvíla, Bohuslav Křena, Aleš Smrčka, Tomáš Vojnar

What Did You Pack in My App? A Systematic Analysis of Commercial Android Packers

Zikan Dong, Hongxuan Liu, Liu Wang, Xiapu Luo, Yao Guo, Guoai Xu, Xusheng Xiao, Haoyu Wang

What Improves Developer Productivity at Google? Code Quality

Lan Cheng, Emerson Murphy-Hill, Mark Canning, Ciera Jaspan, Collin Green, Andrea Knight, Nan Zhang, Liz Kammer

Workgraph: Personal Focus vs. Interruption for Engineers at Meta

Yifen Chen, Peter Rigby, Yulin Chen, Kun Jiang, Nader Dehghani, Qianving Huang, Peter Cottle, Clayton Andrews, Noah Lee, Nachiappan Nagappan



Liquo Huanq

Southern Methodist University



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