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Table of Contents

Message from the ISSRE 2018 General Chairs xiii
Message from the ISSRE 2018 Industry Track Chairs xv
ISSRE 2018 Industry Track Committees xvi
Message from the ISSRE 2018 Doctoral Symposium Chairs xvii
ISSRE 2018 Doctoral Symposium Committees xviii
ISSRE 2018 Doctoral Symposium Keynote xix
Message from the ISSRE 2018 Fast Abstracts Track Chair xx
ISSRE 2018 Fast Abstracts Track Committees xxi
Message from the IDEAR 2018 Workshop Chairs xxii
IDEAR 2018 Workshop Committees xxiii
Message from the STEP 2018 Workshop Chairs xxiv
STEP 2018 Workshop Committees xxv
STEP 2018 Workshop Keynote xxvi
Message from the WoSAR 2018 Workshop Chairs xxvii
WoSAR 2018 Workshop Committees xxviii
WoSAR 2018 Workshop Keynote xxx
Message from the WoSoCer 2018 Workshop Chairs xxxi
WoSoCer 2018 Workshop Committees xxxii
WoSoCer 2018 Workshop Keynote xxxiii

Industry Track

Best Disruptive Idea Award

Use of Self-Healing Techniques to Improve the Reliability of a Dynamic and Geo-Distributed Ad Delivery Service 1
Nicolas Brousse (Adobe Systems) and Oleksii Mykhailov (Adobe Systems)

Trap-Based Software Review: How Will Engineers Embed Bugs Due to Cognitive Error? 6
Aya Ureshino (Works Applications Co., Ltd.), Yasuharu Nishi (University of Electro-Communications), Satomi Yoshizawa (NEC Corporation), Makoto Nonaka (Toyo University), and Makiko Asai (Works Applications Co., Ltd.)
Using Supervised Learning to Guide the Selection of Software Inspectors in Industry

Maninder Singh (North Dakota State University), Gursimran Singh Walia (North Dakota State University), and Anurag Goswami (Bennett University)

Best Paper Award Session

UFO - Hidden Backdoor Discovery and Security Verification in IoT Device Firmware

Chin-Wei Tien (National Taiwan University), Tsung-Ta Tsai (Institute for Information Industry), Ing-Yi Chen (National Taipei University of Technology), and Sy-Yen Kuo (National Taiwan University)

A Smart Context-Aware Program Assistant Based on Dynamic Programming Event Modeling

Xuejiao Zhao (Nanyang Technological University), Hongwei Li (Jiangxi Normal University), Yutian Tang (Hong Kong Polytechnic University), Dongjing Gao (Fudan University), Lingfeng Bao (Zhejiang University), and Ching-Hung Lee (Nanyang Technological University)

KEREP: Experience in Extracting Knowledge on Distributed System Behavior through Request Execution Path

Jing Gu (Peking University), Long Wang (IBM Corporation), Yong Yang (Peking University), and Ying Li (Peking University)

Defect and Threats Prevention

AppWrapper: Patching Security Functions with Dynamic Policy on Your Insecure Android Apps

Sung-Hoon Lee (University of Science and Technology), Seung-Hyun Kim (Electronics and Telecommunications Research Institute), SooHyung Kim (Electronics and Telecommunications Research Institute), and Seung-Hun Jin (Electronics and Telecommunications Research Institute)

A Comprehensive Framework for Security in Engineering Projects - Based on IEC 62443

Monika Maidl (Siemens AG), Dirk Kröselberg (Siemens AG), Jochen Christ (Siemens AG), and Kristian Beckers (Siemens AG)

A Concept of QCD Prediction and Control in Agile Software Development for Portfolio Management

Kumi Jinzenji (NTT Corporation) and Daisuke Hamuro (NTT Corporation)

Training Industry Practitioners to Investigate the Human Error Causes of Requirements Faults

Kavitha Manjunath (PowerObjects), Vaibhav Anu (Montclair State University), Gursimran Walia (North Dakota State University), and Gary Bradshaw (Mississippi State University)

Reliability Assessment

Friend or Foe: Strong Consistency vs. Overload in High-Availability Distributed Systems and SDN

Robert Hanmer (Nokia Software), Lalita Jagadeesan (Nokia Bell Labs), Veena Mendiratta (Nokia Bell Labs), and Heng Zhang (Purdue University)
Distributed Systems Testing and Profiling

Visualisation to Support Fault Localisation in Distributed Embedded Systems within the Automotive Industry

Francisco Gomes de Oliveira Neto (Chalmers, Gothenburg University), Michael Jones (Sigma Embedded Engineering AB), and Rafael da Silva Martins (Zenuity AB)

Using Ontologies for Test Suites Generation for Automated and Autonomous Driving Functions

Florian Klueck (TU Graz), Yihao Li (TU Graz), Mihai Nica (AVL List GmbH), Jianbo Tao (AVL List GmbH), and Franz Wotawa (TU Graz)

An Approach to Identifying Error Patterns for Infrastructure as Code

Wei Chen (Chinese Academy of Sciences), Guoquan Wu (Chinese Academy of Sciences), and Jun Wei (Chinese Academy of Sciences)

Fast Abstracts

Reliability, Testing, and Security

Model Checking the Uncertainties in Software Systems Introduced by Intelligent Components

Zuohua Ding (Zhejiang Sci-Tech University), Wenjie Jiang (Zhejiang Sci-Tech University), Mingyue Jiang (Zhejiang Sci-Tech University), Zhi Jin (Peking University), and He Jiang (Dalian University of Technology)

Evaluation and Construction of Covering Arrays Utilizing Prior Information

Ryan Lekivetz (SAS Institute, Inc.) and Joseph Morgan (SAS Institute, Inc.)

Predicting Software Defects Based on Cognitive Error Theories

Fuqun Huang (Institute of Interdisciplinary Scientists) and Lorenzo Strigini (City University of London)

Software Reliability Evaluation Method Based on a Software Network

Jun Ai (Beihang University), Wenzhu Su (Beihang University), and Fei Wang (Beihang University)

Probing the Security of DNA Origami

Chase Koehler (Iowa State University), Divita Mathur (Iowa State University), Eric Henderson (Iowa State University), and Robyn Lutz (Iowa State University)

Services and Cloud Systems

Enhancing the Analysis of Error Propagation and Failure Modes in Cloud Systems

Domenico Cotroneo (University of Naples Federico II), Luigi De Simone (University of Naples Federico II), Alfonso Di Martino (University of Naples Federico II), Pietro Liguori (University of Naples Federico II), and Roberto Natella (University of Naples Federico II)

An Adaptive PID Control for QoS Management in Cloud Computing System

Siqian Gong (Beihang University), Beiwei Yin (Beihang University), and Kai-yuan Cai (Beihang University)
Model Fusion: Weighted N-Version Programming for Resilient Autonomous Vehicle Steering Control .144

Ailec Wu (University of Virginia), Abu Hasnat Mohammad Rubaiyat (University of Virginia), Chris Anton (University of Virginia), and Homa Alemzadeh (University of Virginia)

ORCAS: Efficient Resilience Benchmarking of Microservice Architectures .146

André van Hoorn (University of Stuttgart), Aldeida Aleti (Monash University), Thomas F. Düllmann (University of Stuttgart), and Teerat Pitakrat (University of Stuttgart)


Hanyu Pei (Beihang University), Beibei Yin (Beihang University), and Min Xie (City University of Hong Kong)

Doctoral Symposium Papers

Recently Started Students

Enhancing Security and Reliability for Smart-Systems' Architectures .150

Florian Hofer (Free University of Bolzano-Bozen)

Safety Analysis for Highly Automated Driving .154

Tobias Schmid (University of Stuttgart and BMW AG)

Testing Extract-Transform-Load Process in Data Warehouse Systems .158

Hajar Homayouni (Colorado State University)

Prioritization of Metamorphic Relations Based on Test Case Execution Properties .162

Madhusudan Srinivasan (Montana State University)

Nearly Finished Students

Software Reliability Assessment: Modeling and Algorithms .166

Vidhyashree Nagaraju (University of Massachusetts Dartmouth)

Modelling, Design and Optimization of Dependable Softwarized Networks for Industrial Applications .170

Petra Vizarreta (Technical University of Munich)

Taming Exceptions in Android Applications .174

Juliana Oliveira (Federal University of Rio Grande do Norte)

Machine Learning Augmented Fuzzing .178

Leonid Joffe (University College London)
IDEAR 2018 Workshop

Advances in Fault Localization

Reduce Before You Localize: Delta-Debugging and Spectrum-Based Fault Localization 184
Arpit Christi (Oregon State University), Matthew Lyle Olson (Oregon State University), Mohammad Amin Alipour (University of Houston), and Alex Groce (Northern Arizona University)

Spectrum-Based Fault Localization for Logic-Based Reasoning 192
Ingo Pill (TU Graz) and Franz Wotawa (TU Graz)

SeTCHi: Selecting Test Cases to Improve History-Guided Fault Localization 200
Long Zhang (Chinese Academy of Sciences) and Zhenyu Zhang (Chinese Academy of Sciences)

Automated Repair

CFAAR: Control Flow Alteration to Assist Repair 208
Chadi Trad (American University of Beirut), Rawad Abou Assi (American University of Beirut), Wes Masri (American University of Beirut), and Fadi Zarakat (American University of Beirut)

DDS: Deadlock Detector and Solver 216
Eman Aldakheel (University of Illinois Chicago and Princess Nourah bint Abdulrahman University Riyadh), Ugo Buy (University of Illinois Chicago), and Simran Kaur (University of Illinois Chicago)

Processes and Applications

ConfGuru - A System for Fully Automated Debugging of Configuration Errors 224
Artur Andrzejak (Heidelberg University) and Matthias Iacsa (Heidelberg University)

An Approach for Predicting Bug Report Fields Using a Neural Network Learning Model 232
Korosh Koochekian Sabor (Concordia University), Mathieu Nayrolles (Concordia University), Abdelaziz Trabelsi (Concordia University), and Abdelwahab Hamou-Lhadj (Concordia University)

STEP 2018 Workshop

Testing and Security

Establishment of Methods for Information Security System Policy Using Benchmarking 237
Martin Kang (University of Memphis), Ted Lee (University of Memphis), and Sungyong Um (National University of Singapore)

The DevSecOps and Agency Theory 243
Jong Seok Lee (University of Memphis)
Test Case Prioritization and Value Estimation

Graphite: A Greedy Graph-Based Technique for Regression Test Case Prioritization .245
Maral Azizi (University of North Texas) and Hyunsook Do (University of North Texas)

A Literature Review of Software Test Cases and Future Research .252
Mark L. Gillenson (University of Memphis), Xihui Zhang (University of North Alabama), Thomas F. Stafford (Louisiana Tech University), and Yao Shi (University of Memphis)

WoSAR 2018 Workshop

Literature Review

Software Aging and Rejuvenation in the Cloud: A Literature Review .257
Roberto Pietrantuono (Università degli Studi di Napoli Federico II)
and Stefano Russo (Università degli Studi di Napoli Federico II)

A Systematic Mapping Review of Memory Leak Detection Techniques .264
Guilherme Otávio de Sena (Federal University of Uberlandia) and Rivalino Matias Jr. (Federal University of Uberlandia)

Software Aging Detection and Monitoring

An Empirical Study on Software Aging Indicators Prediction in Android Mobile .271
Yu Qiao (Beihang University), Zheng Zheng (Beihang University), and YunYu Fang (Beihang University)

Extracting Interaction-Related Failure Indicators for Online Detection and Prediction of Content Failures .278
Luyi Li (Beihang University), Minyan Lu (Beihang University), and Tingyang Gu (Beihang University)

The Role of Similarity in Detecting Feature Interaction in Software Product Lines .286
Seyedehzahra Khoshmanesh (Iowa State University) and Robyn R. Lutz (Iowa State University)

Software Rejuvenation

A New Software Rejuvenation Model for Android .293
Jianwen Xiang (Wuhan University of Technology), Caisheng Weng (Wuhan University of Technology), Dongdong Zhao (Wuhan University of Technology), Jing Tian (Wuhan University of Technology), Shengwu Xiong (Wuhan University of Technology), Lin Li (Wuhan University of Technology), and Artur Andrzejakb (Heidelberg University)

Interacting SRN Models for Availability Evaluation of VM Migration as Rejuvenation on a System under Varying Workload .300
Matheus Torquato (Federal Institute of Alagoas, Campus Arapiraca, and University of Coimbra) and Marco Vieira (University of Coimbra)
WoSoCer 2018 Workshop

Open Challenges in Software Certification

Robotics Software Engineering and Certification: Issues and Challenges 308
Roberto Pietrantuono (Università degli Studi di Napoli Federico II) and Stefano Russo (Università degli Studi di Napoli Federico II)

Testing and Certification

TensorFI: A Configurable Fault Injector for TensorFlow Applications 313
Guanpeng Li (University of British Columbia), Karthik Pattabiraman (University of British Columbia), and Nathan DeBardeleben (Los Alamos National Laboratory)

Dependability Certification Guidelines for NFVs through Fault Injection 321
Domenico Cotroneo (University of Naples Federico II), Luigi De Simone (University of Naples Federico II), and Roberto Natella (University of Naples Federico II)

Toward a Systematic and Safety Evidence Productive Verification Approach for Safety-Critical Systems 329
Aiman Gannous (University of Denver), Anneliese Andrews (University of Denver), and Barbara Gallina (Mälardalen University)

Certifiable Software Development and Verification

Towards Agile Yet Regulatory-Compliant Development of Medical Software 337
Vlad Stirbu (CompliancePal) and Tommi Mikkonen (University of Helsinki)

Verifiable Self-Certifying Autonomous Systems 341
Michael Fisher (University of Liverpool), Emily Collins (University of Liverpool), Louise Dennis (University of Liverpool), Matt Luckcuck (University of Liverpool), Matt Webster (University of Liverpool), Mike Jump (University of Liverpool), Vincent Page (University of Liverpool), Charles Patchett (University of Liverpool), Fateme Dinmohammadi (Heriot-Watt University), David Flynn (Heriot-Watt University), Valentin Robu (Heriot-Watt University), and Xingyu Zhao (Heriot-Watt University)

Model-Based Computer-Aided Monitoring for ISO26262 Compliant Systems 349
Morayo Adedjouma (CEA LIST) and Asma Smaoui (CEA LIST)

Author Index 353