This document lists the papers that have been accepted for:

Research and Technical Track
Software Engineering in Education
Software Engineering in Practice

RESEARCH AND TECHNICAL TRACK

Efficient and precise Typestate Analysis by determining Continuation-equivalent States, Eric Bodden
An Analysis of the Variability in Forty Preprocessor-Based Software Product Lines, Sven Apel, Joerg Liebig, Christian Lengauer, Christian Kaestner, Michael Schulze
Liability in Software Engineering - Overview of the LISE Approach and Illustration on a Case Study, Manuel Maarek, Daniel Le Metayer, Manuel Maarek, Marie-Laure Potet, Eduardo Mazza
Towards Automated Bug Diagnosis: An Empirical Study of Reported Software Bugs in Server Applications, Swarup K Sahoo, John Criswell, Vikram S Adve
A large-scale empirical study of practitioners' use of object-oriented concepts, Tony Gorschek, Ewan Tempo, Lefteris Angelis
Collaborative Reliability Prediction of Service-Oriented Systems, Zibin Zheng, Michael R. Lyu
From Behaviour Preservation to Behaviour Modification: Constraint-Based Mutant Generation, Andreas Thies, Friedrich Steimann
Views: Object-Inspired Concurrency Control, Brian Demsky, Patrick Lam
Supporting Developers with Natural Language Queries, Michael Wuersch, Giacomo Ghezzi, Gerald Reif, Harald Gall
Moving into a New Software Project Landscape, Barthelemy Dagenais, Harold Ossher, Rachel K.E. Bellamy, Martin P. Robillard, Jacqueline P. De Vries
AURA: A Hybrid Approach to Identify Framework Evolution, Wei Wu, Yann-Gael Guéhéneuc, Giuliano Antoniol, Miryung Kim
Characterizing and Predicting Which Bugs Get Fixed: An Empirical Study of Microsoft Windows, Philip J. Guo, Thomas Zimmermann, Nachiappan Nagappan, Brendan Murphy
Awareness 2.0: Staying Aware of Projects, Developers and Tasks using Dashboards and Feeds, Christoph Treude, Margaret-Anne Storey
StakeNet: Using Social Networks to Analyse the Stakeholders of Large-Scale Software Projects, Soo Ling Lim, Daniele Quercia, Anthony Finkelstein
A Degree-of-Knowledge Model to Capture Source Code Familiarity, Thomas, Fritz, Jingwen Ou, Gail C. Murphy, Emerson Murphy-Hill
An Empirical Study of Optimizations in Yogi, Aditya V Nori, Sriram K Rajamani
Identifying Crosscutting Concerns Using Historical Code Changes, Bram Adams, Zhen Ming Jiang, Ahmed E. Hassan

An Exploratory Study of the Evolution of Software Licensing, Massimiliano Di Penta, Daniel M. German, Yann-Gael Gueheneuc, Giuliano Antoniol

Organizing Self-Organizing Teams, Rashina Hoda, James Noble, Stuart Marshall

Using Information Fragments to Answer the Questions Developers Ask, Thomas Fritz, Gail C. Murphy

A Machine Learning Approach for Tracing Regulatory Codes to Product Specific Requirements, Jane Cleland-Huang, Adam Czauderna, John Emenecker, Marek Gibiec

Discriminative Model Approach Towards Accurate Duplicate Bug Report Retrieval, Chengnian Sun, David Lo, Xiaoyin Wang, Jing Jiang, Siau-Cheng Khoo

Practical Fault Localization for Dynamic Web Applications, Shay Artzi, Julian Dolby, Frank Tip, Marco Pistoia

Is Operator-Based Mutant Selection Superior to Random Mutant Selection?, Zhang Lu, Shan-Shan Hou, Jun-Jue Hu, Tao Xie, Hong Mei

Developing next generation ADLs through MDE techniques, Davide Di Ruscio, Ivano Malavolta, Henry Muccini, Patrizio Pelliccione, Alfonso Pierantonio

Codebook: Discovering and Exploiting Relationships in Software Repositories, Andrew Begel, Yit Phang Khoo, Thomas Zimmermann

A Cut-off Approach for Bounded Verification of Parameterized Systems, Qiusong Yang, Mingshu Li

Online Inference and Enforcement of Temporal Properties, Mark Gabel, Zhendong Su

Quality of Service Profiling, Sasa Misailovic, Stelios Sidiropoulos, Henry Hoffman, Martin Rinard

Adaptive Bug Isolation., Piramanayagam Arumuga Nainar, Ben Liblit

Mining API Mapping for Language Migration, Hao Zhong, Suresh Thummalapenta, Tao Xie, Lu Zhang, Qing Wang

LEAKPOINT: Pinpointing the Causes of Memory Leaks, James A. Clause, Alessandro Orso

Precise Calling Context Encoding, William N. Sumner, Yunhui Zheng, Dasarath Weeratunge, Xiangyu Zhang

Effective Interprocedural Resource Leak Detection, Emina Torlak, Satish Chandra

Customized Awareness: Recommending Relevant External Change Events, Reid Holmes, Robert Walker

Engineering Parallel Applications with Tunable Architectures, Christoph A. Schaefer, Victor Pankratius, Walter F. Tichy

Falcon: Fault Localization in Concurrent Programs, Sangmin Park, Richard Vuduc, Mary Jean Harrold

Code Bubbles: Rethinking the User Interface of Integrated Development Environments, Andrew Bragdon, Steven P. Reiss, Robert Zeleznik, Suman Karumuri, William Cheung, Joshua Kaplan, Christopher Coleman, Ferdi Adeputra, Joseph J. LaViola

Detecting Atomic-Set Serializability Violations in Multithreaded Programs through Active Randomized Testing, Zhifeng Lai, S.C. Cheung, W.K. Chan

Linking E-Mails and Source Code Artifacts, Alberto Bacchelli, Michele Lanza, Romain Robbes

Using Twinning to Adapt Programs to Alternative APIs, Marius Nita, David Notkin

Has the Bug Really Been Fixed?, Zhongxian Gu, Earl T. Barr, David J. Hamilton, Zhendong Su

Summarizing Software Artifacts: A Case Study of Bug Reports, Sarah Rastkar, Gail C. Murphy, Gabriel Murray

Oracle-Guided Component-Based Program Synthesis, Susmit Jha, Sumit Gulwani, Sanjit A. Seshia, Ashish Tiwari

Using Symbolic Evaluation to Understand Behavior in Configurable Software Systems, Elnatan Reisner, Charles Song, Kin-Keung Ma, Jeffrey S. Foster, Adam Porter

Recurring Bug Fixes in Object-Oriented Programs, Tung Nguyen, Hoan Nguyen, Nam Pham, Jafar Al-Kofahi, Tien Nguyen

Developers Ask Reachability Questions, Thomas D. LaToza, Brad A. Myers

Determin: Inferring Likely Deterministic Specifications of Multithreaded Programs, Jacob Burnim, Koushik Sen

Software Traceability with Topic Modeling, Hazeline U. Asuncion, Arthur Asuncion, Richard N. Taylor

SOFTWARE ENGINEERING IN EDUCATION

Measuring complexity, effectiveness and efficiency in software course projects, Wilson Pádua

A HOT --Human, Organizational and Technological-- Framework for a Software Engineering Course, Orit Hazzan and Yael Dubinsky

Empirical Analysis of Team Review Approaches for Teaching Quality Software Development, Amna Humayun, Wafa Tahir, Farrukh Ahmad Ghulam, and Fakhar Lodhi

The Educational Value of Mapping Studies of Software Engineering Literature, Barbara Kitchenham, Pearl Brereton, and David Budgen


Advanced Hands-on Training for Distributed and Outsourced Software Engineering, Martin Nordio, Roman Mitin, and Bertrand Meyer

Towards Contextualised Software Engineering Education: An African Perspective, Jens Fendler and Heike Winschiers-Theophilus

SOFTWARE ENGINEERING IN PRACTICE

Performance Modeling in Industry: A Case Study on Storage Virtualization by Nikolaus Huber, Karlsruhe Institute of Technology, IPD, Germany, Steffen Becker, Christoph Rathfelder, FZI Forschungszentrum Informatik, Germany, Jochen Schweflinghaus, IBM Research and Development GmbH, Germany, Ralf Reussner, Karlsruhe Institute of Technology, IPD, Germany

A modeling language’s evolution driven by tight interaction between academia and industry by Thomas Aschauer, Gerd Dauenhauer, Wolfgang Pree, University of Salzburg, Austria


Improving Throughput via Slowdowns, Maayan Goldstein, Onn Shehory, Rachel Tzoref-Brill, Shmuel Ur, IBM Haifa Research Lab, Israel

A role-based qualification and certification program for software architects: An experience report from Siemens, Frances Paulisch, Peter Zimmerer, Siemens AG, Germany

Can Clone Detection Support Quality Assessments of Requirements Specifications?, Elmar Juergens, Institut für Informatik, Florian Deissenboeck, Martin Feilkas, Benjamin Hummel, Bernhard Schaezt, Stefan Wagner, Institut für Informatik, Technische Universität München, Germany, Christoph Domann, Jonathan Streit, itestra GmbH, Germany

Assessments in Global Software Development: A Tailorable Framework for Industrial Projects, Salger, Capgemini sd&m, Germany, Gregor Engels, Dept. of Computer Science, University of Paderborn, Germany, Hofmann, Capgemini sd&m, Germany

Formalization and Validation of a Subset of the European Train Control System, Angelo Chiappini, European Railway Agency, France, Alessandro Cimatti, FBK - IRST, Italy, Luca Macchi, Registro Italiano Navale, Italy, Oscar Rebollo, European Railway Agency, France, Marco Roveri, FBK - IRST, Italy, Susi, FBK - IRST, Italy, Tonetta, Fondazione Bruno Kessler - irst, Trento, Italy, Vittorini, Registro Italiano Navale, Genova, Italy


Comprehending Module Dependencies and Sharing, Yongzheng Wu, Roland H.C. Yap, Rajiv Ramnath, National University of Singapore, Singapore

Transparent Combination of Expert and Measurement Data for Defect Prediction - An Industrial Case Study, Michael Klaes, Frank Elberzhager, Jürgen München, Fraunhofer Institute for Experimental Software Engineering, Germany, Klaus Hartjes, Olaf von Graevenmeyer, Deutsche Telekom AG, Germany

Penalty Policies in Professional Software Development Practice: A Multi-Method Field Study, Wang, City University of Hong Kong, China, Min Zhang, JAIST, Japan

Integrating Legacy Systems with MDE, Mickael Clavreul, INRIA, France, Olivier Barais, Jean-Marc Jézéquel, IRISA - Université Rennes 1, France

Khasiana: Making Defect-Finding Tools Work for You, Mangala Gowri Nanda, Monika Gupta, Saurabh Sinha, IBM Research, India, India, Satish Chandra, IBM T.J. Watson Research Center, USA, David Schmidt, IBM Tivoli, USA, Pradeep Balachandran, IBM Rational, India

From Scripts to Specifications: The Evolution of a Flight Software Testing Effort, Alex Groce, Oregon State University, USA, Klaus Havelund, Margaret Smith, Jet Propulsion Laboratory, USA