

Inhaltsverzeichnis

Wissenschaftliches Programm

Andreas Zeller

Vorwort Wissenschaftliches Programm der SE 2014 21

Software Analytics

Thomas Zimmermann, Nachiappan Nagappan

Software Analytics for Digital Games 23

Widura Schwittek, Stefan Eicker

A Study on Third Party Component Reuse in Java Enterprise Open Source Software .. 25

Ingo Scholtes, Marcelo Serrano Zanetti, Claudio Juan Tessone, Frank Schweitzer

Categorizing Bugs with Social Networks: A Case Study on Four Open Source Software Communities 27

Walid Maalej, Martin Robillard

Patterns of Knowledge in API Reference Documentation 29

Quality of Service

Franz Brosch, Heiko Koziolk, Barbora Buhnova, Ralf Reussner

Architecture-Based Reliability Prediction with the Palladio Component Model 31

Norbert Siegmund, Sergiy Kolesnikov, Christian Kästner, Sven Apel, Don Batory, Marko Rosenmüller, Gunter Saake

Performance Prediction in the Presence of Feature Interactions..... 33

Jons-Tobias Wamhoff, Etienne Rivière, Gilles Muller, Christof Fetzer, Pascal Felber

FastLane: Software Transactional Memory Optimized for Low Numbers of Threads... 35

Lars Grunske, Ayman Amin

Reactive vs. Proactive Detection of Quality of Service Problems 37

Verification

Antonio Filieri, Corina S. Păsăreanu, Willem Visser

Reliability Analysis in Symbolic Pathfinder: A brief summary..... 39

Dirk Beyer, Stefan Löwe, Evgeny Novikov, Andreas Stahlbauer, Philipp Wendler

Precision Reuse in CPAchecker 41

Christian Hammer

Detecting Deadlock in Programs with Data-Centric Synchronization 43

Volodymyr Kuznetsov, Johannes Kinder, Stefan Bucur, George Candea

Efficient State Merging in Symbolic Execution 45

Comprehension

Tobias Roehm, Rebecca Tiarks, Rainer Koschke, Walid Maalej

How Do Professional Developers Comprehend Software? 47

Zoya Durdik, Ralf Reussner

On the Appropriate Rationale for Using Design Patterns and Pattern Documentation 49

Domenico Bianculli, Carlo Ghezzi, Cesare Pautasso, Patrick Senti

Specification Patterns from Research to Industry: A Case Study in Service-Based Applications 51

Dominik Rost, Matthias Naab, Crescencio Lima, Christina von Flach Chavez

Software Architecture Documentation for Developers: A Survey 53

Evolution

Vasilios Andrikopoulos

On the (Compatible) Evolution of Services 55

Timo Kehrer

Generierung konsistenzerhaltender Editierskripte im Kontext der Modellversionierung 57

Klaus Schmid

Ein formal fundierter Entscheidungs-Ansatz zur Behandlung von Technical Debt 59

Synthesis

Gerd Kainz, Christian Buckl, Alois Knoll

Tool Support for Integrated Development of Component-based Embedded Systems 61

Shahar Maoz, Jan Oliver Ringert, Bernhard Rumpe

Synthesis of Component and Connector Models from Crosscutting Structural Views... 63

Thomas Thüm

Modular Reasoning for Crosscutting Concerns with Contracts 65

Daniel Wonisch, Alexander Schremmer, Heike Wehrheim

Programs from Proofs – Approach and Applications 67

Modeling

Stefan Wagner

Software-Produktqualität modellieren und bewerten: Der Quamoco-Ansatz 69

Richard Pohl, Vanessa Stricker, Klaus Pohl

Messung der Strukturellen Komplexität von Feature-Modellen 71

Robert Reicherdt, Sabine Glesner

Methods of Model Quality in the Automotive Area 73

Lars Hamann, Martin Gogolla, Oliver Hofrichter

Zur Integration von Struktur- und Verhaltensmodellierung mit OCL 75

Software Architecture and Specification

Aldeida Aleti, Barbora Buhnova, Lars Grunske, Anne Koziolk, Indika Meedeniya

Software Architecture Optimization Methods: A Systematic Literature Review 77

Christian Hammer

Flexible Access Control for JavaScript 79

Static Analysis

Eric Bodden, Társis Tolêdo, Márcio Ribeiro, Claus Brabrand, Paulo Borba, Mira Mezini

SPL^{LIFT} – Statically Analyzing Software Product Lines in Minutes Instead of Years.. 81

Marco Trudel

C nach Eiffel: Automatische Übersetzung und objektorientierte Umstrukturierung von Legacy Quelltext 83

Ahmed Bouajjani, Egor Derevenetc, Roland Meyer

Robustness against Relaxed Memory Models 85

Sebastian Eder, Maximilian Junker, Benedikt Hauptmann, Elmar Juergens, Rudolf Vaas, Karl-Heinz Prommer

How Much Does Unused Code Matter for Maintenance? 87

Specification

Jan Jürjens, Kurt Schneider

The SecReq approach: From Security Requirements to Secure Design while Managing Software Evolution 89

James J. Hunt, Maarten De Mol, Arend Rensink

Noninvasive regelbasierte Graphtransformation für Java 91

Kaituo Li, Christoph Reichenbach, Yannis Smaragdakis, Michal Young

Second-Order Constraints in Dynamic Invariant Inference 93

Testing

Raphael Pham, Leif Singer, Olga Liskin, Fernando Figueira Filho, Kurt Schneider

Revisited: Testing Culture on a Social Coding Site 95

Dirk Beyer, Andreas Holzer, Michael Tautschnig, Helmut Veith

Reusing Information in Multi-Goal Reachability Analyses 97

Alexander Wert, Jens Happe, Lucia Happe

Supporting Swift Reaction: Automatically Uncovering Performance Problems by Systematic Experiments 99

Azadeh Farzan, Andreas Holzer, Niloofar Razavi, Helmut Veith

Concolic Testing of Concurrent Programs 101

Software Engineering Ideen

Bernd Brügge

Vorwort Software Engineering Ideen Programm der SE 2014 105

Mensch Maschine Interaktion

Anke Tallig

Sozial empathische Systeme coram publico 107

Marc Paul, Amelie Roenspieß, Tilo Mentler, Michael Herczeg

The Usability Engineering Repository (UsER) 113

Tools

David Georg Reichelt, Lars Braubach

<i>Sicherstellung von Performanzeigenschaften durch kontinuierliche Performanztests mit dem KoPeMe Framework</i>	<i>119</i>
--	------------

Oliver Siebenmarck

<i>Visualizing cross-tool ALM projects as graphs with the Open Service for Lifecycle Collaboration</i>	<i>125</i>
--	------------

Martin Otto Werner Wagner

<i>ACCD – Access Control Class Diagram</i>	<i>131</i>
--	------------

Code Generierung und Verifikation

Thorsten Ehlers, Dirk Nowotka, Philipp Sieweck, Johannes Traub

<i>Formal software verification for the migration of embedded code from single- to multicore systems</i>	<i>137</i>
--	------------

Malte Brunnlieb, Arnd Poetzsch-Heffter

<i>Architecture-driven Incremental Code Generation for Increased Developer Efficiency</i>	<i>143</i>
---	------------

Technologietransferprogramm

Ralf Reussner

<i>Vorwort Technologietransfer-Programm der SE 2014</i>	<i>151</i>
---	------------

Transfer Softwarearchitektur

Balthasar Weitzel, Matthias Naab, Mathias Scheffe

<i>Agilität braucht Architektur!</i>	<i>153</i>
--	------------

Heiko Koziolk, Thomas Goldschmidt

<i>Tool-Driven Technology Transfer to Support Software Architecture Decisions.....</i>	<i>159</i>
--	------------

Benjamin Klatt, Klaus Krogmann, Michael Langhammer

Individual Code Analyses in Practice 165

Transferprozesse

Stefan Hellfeld

FZI House of Living Labs - interdisziplinärer Technologietransfer 2.0 171

Andreas Metzger, Philipp Schmidt, Christian Reinartz, Klaus Pohl

Management operativer Logistikprozesse mit Future-Internet-Leitständen: Erfahrungen aus dem LoFIP-Projekt 177

Steffen Kruse, Philipp Gringel

Ein gutes Bild erfordert mindestens 1000 Worte - Daten-Visualisierungen in der Praxis 183

Software & Systems Engineering Essentials

SEE Softwareprojekte

Katrin Heymann

Releasemanagement in einem sehr komplexen Projekt 191

Christian Werner, Ulrike Schneider

Open Source als Triebfeder für erfolgreiche Softwareprojekte in der öffentlichen Verwaltung 193

Ralf Leonhard, Gerhard Pews, Simon Spielmann

Effiziente Erstellung von Software-Factories 195

SEE Softwaretest

Gerald Zincke

Sieben Strategien gegen beißende Hunde 197

Matthias Daigl

<i>Gegen den Trend? Neue Software-Teststandards ISO/IEC/IEEE 29119</i>	199
--	-----

Workshops

Robert Heinrich, Reiner Jung, Marco Konersmann, Thomas Ruhroth, Eric Schmieders

<i>1st Collaborative Workshop on Evolution and Maintenance of Long-Living-Systems (EMLS14)</i>	203
--	-----

Volker Stolz, Baltasar Trancón Widemann

<i>7. Arbeitstagung Programmiersprachen (ATPS 2014)</i>	205
---	-----

Michaela Huhn, Stefan Gerken, Carsten Rudolph

<i>CeMoSS – Certification and Model-Driven Development of Safe and Secure Software</i>	207
--	-----

Pit Pietsch, Udo Kelter, Jan Oliver Ringert

<i>International Workshop on Comparison and Versioning of Software Models (CVSM 2014)</i>	209
---	-----

Andrea Herrmann, Anne Hoffmann, Dieter Landes, Rüdiger Weißbach

<i>Workshop „Lehre für Requirements Engineering“ (LehRE)</i>	211
--	-----

Ottmar Bender, Wolfgang Böhm, Stefan Henkler, Oliver Sander, Andreas Vogelsang, Thorsten Weyer

<i>4. Workshop zur Zukunft der Entwicklung softwareintensiver eingebetteter Systeme (ENVISON2020)</i>	213
---	-----

Tutorien

Thorsten Keuler, Jens Knodel, Matthias Naab

<i>Tutorial: Zukunftssichere Software Systeme mit Architekturbewertung: Wann, Wie und Wieviel?</i>	217
--	-----

Guido Gryczan, Henning Schwentner

<i>Der Werkzeug-und-Material-Ansatz für die Entwicklung interaktiver Software-Systeme</i>	219
---	-----

Simon Grapenthin, Matthias Book, Volker Gruhn
Früherkennung fachlicher und technischer Projektrisiken mit dem Interaction Room.. 221

Doktorandensymposium

Michaela Gluchow
AGREEMENT - An Approach for Agile Rationale Management 225

Christian Wulf
*Pattern-Based Detection and Utilization of Potential Parallelism in Software Sys-
tems* 229

Max E. Kramer
Synchronizing Heterogeneous Models in a View-Centric Engineering Approach 233

Emitza Guzman
Summarizing, Classifying and Diversifying User Feedback 237