

ANNUAL REPORT 2014/2015

APPENDIX NAMES, FACTS, EVENTS



**Zukunft
Land**

smart
logistics

smart
economy

smart
health

smart
trade

smart
energy

smart
mobility

smart
work

smart
farming



APPENDIX

Network in Science and Industry	4
Industrial Partners	4
National Research Partners	5
International Research Partners	6
International Software Engineering Network (ISERN)	6
Visitors Hosted	7
Professional Contributions	8
Lecturing Assignments	8
Editorial Boards	9
Committee Activities	10
Scientific and Technological Advisory Boards	11
Memberships in Industrial Advisory Boards	12
Memberships in Professional Associations	12
Keynotes	13
Presentations	13
Scientific Contributions	17
Books	17
Articles in Books	17
Articles in Journals	18
Contributions to Conference Proceedings	20
Proceedings by Editors	23
Fraunhofer IESE Reports	24
Doctoral Theses	25
Master'S Theses	25
Awards	26
Internal Awards	26
External Awards	26

NETWORK IN SCIENCE AND INDUSTRY

INDUSTRIAL PARTNERS¹

- Adidas AG, Herzogenaurach
- AEF - Agricultural Industry Electronics Foundation e.V., Frankfurt
- Agentilo GmbH, Kaiserslautern
- Agentur Barth Marketing, Kommunikation und Design GmbH, Kaiserslautern
- Agile Point EMEA BVBA, Oudenaarde, Belgium
- agito GmbH, Berlin
- AICAS GmbH, Karlsruhe
- Airbus Defence and Space GmbH, Ulm
- Airbus Operations GmbH, Hamburg
- Ansaldo Sts, Genua, Italy
- Appian Software GmbH, Mainz
- Appway Numcom Software AG, Zurich, Switzerland
- ASA Quality Academy OÜ, Tallinn, Estonia
- Audi AG, Ingolstadt
- Audi Electronics Venture GmbH, Gaimersheim
- AVL LIST GmbH, Graz, Austria
- AVL Schrick GmbH, Remscheid
- AVL Software and Functions GmbH, Regensburg
- Axon Active AG Schweiz, Munich
- BASF SE, Ludwigshafen
- Becker Mining Europe GmbH, Marl
- Binder Elektronik GmbH, Sinsheim
- Bizagi, Chalfont St Peter, UK
- BMW AG, Munich
- BMW Group Forschung und Technik GmbH, Munich
- BTC Business Technology Consulting AG, Berlin
- Carl Zeiss Microscopy GmbH, Jena
- CAS Software AG, Karlsruhe
- CAST GmbH, Munich
- Cisco Systems GmbH, Stuttgart
- CON.ECT Eventmanagement GmbH, Vienna, Austria
- Continental Automotive GmbH, Hanover
- Continental Teves AG & Co. oHG, Frankfurt
- CosmosDirekt, Saarbrücken
- CSL Behring, Marburg
- Daimler AG, Ulm
- Dassault Systèmes, Suresnes, France
- DATEV eG, Nuremberg
- DENSO AUTOMOTIVE Deutschland GmbH, Echting
- Deutsche Post DHL, Troisdorf-Spich
- DHC Business Solutions GmbH, Saarbrücken
- Diehl Aerospace GmbH, Überlingen
- EADS Deutschland GmbH, Munich
- ebm-papst Mulfingen GmbH & Co. KG, Mulfingen
- Elektrobit Automotive GmbH, Erlangen
- eVision Systems GmbH, Forstinning
- Finiti Media LLC, New York, USA
- Firma Vitaphone GmbH, Mannheim
- FIRU mbH, Kaiserslautern
- Fujitsu Enabling Software Technology GmbH, Munich
- FUJITSU Laboratories of Europe Ltd., Hayes, UK
- Gemeinsame Klassenlotterie der Länder (GKL), Munich
- General Dynamics European Land Systems, Kaiserslautern
- Groiss Informatics GmbH, Klagenfurt, Austria
- Hapag-Lloyd AG, Hamburg
- HCM CustomerManagement GmbH, Stuttgart
- HK Business Solution GmbH, Sulzbach
- Huawei Technologies Sweden AB, Kista, Sweden
- ICT Solutions AG, Trier
- igr AG, Rockenhausen
- IHK Zetis GmbH, Kaiserslautern
- Infinion Technologies Austria AG, Villach, Austria
- Insiders GmbH, Kaiserslautern
- Inspire Technologies GmbH, St. Georgen
- Intel GmbH, Feldkirchen
- JobRouter AG, Mannheim
- John Deere European Technology Innovation Center, Kaiserslautern
- John Deere Moline Technology Innovation Center, Moline, USA
- K2NE Germany GmbH, Munich
- kiwiw Systems GmbH, Norderstedt
- Knorr-Bremse, Schwieberdingen
- Liebherr-Aerospace Lindenberg
- Lufthansa Systems Passenger Services GmbH, Raunheim
- MBTECH Group GmbH & CO KGAA, Sindelfingen
- Metasonic GmbH, Pfaffenhofen a.d.Ilm
- Mining Research & Development SAS, Saverne, France
- MITSUBISHI RESEARCH INSTITUTE INC.(MRI), Tokyo, Japan
- Mittelrheinische Treuhand GmbH, Koblenz
- Murex S.A.S., Paris, France
- NXP Semiconductors Germany GmbH, Hamburg
- ORACLE Deutschland B.V. & Co. KG, Potsdam
- Paul Events GmbH, Holzgerlingen
- Porsche Engineering Group GmbH, Weissach

1) Industrial Partners are located in Germany unless stated otherwise.

- proALPHA Software AG, Weilerbach
 - PROLOGICS IT GmbH, Linz, Austria
 - PSL, Medellin, Colombia
 - R&D-Ware Oy, Espoo, Finland
 - Robert-Bosch GmbH, Schwieberdingen
 - Roche Diagnostics GmbH, Mannheim
 - SAP AG, Walldorf
 - Scheer Group GmbH, Saarbrücken
 - Schweizerische Bundesbahnen, Bern, Switzerland
 - Siemens AG, Munich
 - Siemens Financial Services GmbH, Munich
 - SMS-Siemag AG, Hilchenbach
 - SoftProject GmbH, Ettlingen
 - Software AG, Darmstadt
 - Sysgo AG, Klein-Winternheim
 - TIM Solutions GmbH, Freising
 - TAFE Tractors and Farm Equipment Limited, Chennai, India
 - Testo AG, Lenzkirch
 - THALES, Neuilly sur Seine, France
 - TRW Automotive Electronics & Components GmbH, Radolfzell
 - UplinkIT GmbH, Kaiserslautern
 - Vector Informatik GmbH, Stuttgart
 - Volkswagen Aktiengesellschaft, Wolfsburg
 - Volvo Technology Corporation, Göteborg, Sweden
 - WIKON Kommunikationstechnik GmbH, Kaiserslautern
 - Wind River GmbH, Ismaning
 - YellowMab AG, Karlsruhe
 - ZF Friedrichshafen AG, Friedrichshafen
- NATIONAL RESEARCH PARTNERS**
- Albert-Ludwigs-Universität Freiburg (University of Freiburg), Freiburg
 - Berufsbildungswerk Gemeinnützige Bildungseinrichtung des DGB mbH (Vocational Training Organization of the German Confederation of Trade Unions), Erkrath
 - CyberForum e.V., Karlsruhe
 - Deutsches Forschungszentrum für Künstliche Intelligenz GmbH (DFKI) (German Research Center for Artificial Intelligence GmbH), Kaiserslautern
 - Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI), (German Research Center for Artificial Intelligence GmbH), Saarbrücken
 - Deutsches Institut für angewandte Pflegeforschung e.V. (German Institute of Applied Nursing Research), Cologne
 - Deutsche Stiftung für chronisch Kranke (German Foundation for the Chronically Ill), Fürth
 - Fachbereich Maschinenbau, Hochschule Kaiserslautern (Department of Mechanical Engineering, Kaiserslautern University of Applied Sciences), Kaiserslautern
 - Zentrum für Mensch-Maschine-Systeme (Centre of Human-Machine Systems), Technische Universität Berlin
 - House of IT e.V., Darmstadt
 - Institut für Arbeit und Technik (Institute for Work and Technology), Gelsenkirchen
 - Institut für Informatik IV, Technische Universität München (Institute for Computer Science, TU München), Munich
 - KIT Karlsruher Institut für Technologie (Karlsruhe Institute of Technology), Karlsruhe
 - Lehrstuhl für Software Systeme, Universität Duisburg-Essen (Institute for Computer Science and Information Systems, University of Duisburg-Essen), Essen
 - OFFIS, Oldenburger Forschungs- und Entwicklungsinstitut für Informatik-Werkzeuge und -Systeme (Oldenburg Research and Development Institute for Information Technology Tools and Systems), Oldenburg
 - Stadt Kaiserslautern (City of Kaiserslautern)
 - Technische Universität Carolo-Wilhelmina, Braunschweig
 - Technische Universität Darmstadt, Darmstadt
 - Technische Universität Dortmund, Dortmund
 - Technische Universität Kaiserslautern (University of Kaiserslautern), Kaiserslautern
 - Technologie-Initiative SmartFactory KL e.V., Kaiserslautern
 - Universität des Saarlandes (Saarland University), Saarbrücken
 - Universität Trier (Trier University), Trier
 - Westpfalz-Klinikum GmbH, Kaiserslautern

INTERNATIONAL RESEARCH PARTNERS

- Aalborg Universitet, Aalborg, Denmark
- AIT Austrian Institute of Technology GmbH, Vienna, Austria
- Chalmers Tekniska Högskola Aktieföretag, Göteborg, Sweden
- College of the Holy and Undivided Trinity of Queen Elizabeth, Dublin, Ireland
- Danmarks Tekniske Universitet, Kongens Lyngby, Denmark
- Experimental Software Engineering Group of the University of Maryland (UMD/ESEG), University of Maryland, College Park, USA
- Harokopio University, Athen, Greece
- Instituto de Ciências Matemáticas de Computação, Universidade de São Paulo, São Paulo, Brazil
- Instituto Superior de Engenharia do Porto, Porto, Portugal
- Instituto Tecnológico de Informática, Valencia, Spain
- International Security and Counterterrorism Academy, Rishon Letzion, Israel
- Japan Aerospace Exploration Agency JAXA, Tokyo, Japan
- Koninklijke Marechaussee, The Hague, Netherlands
- Korps Landelijke Politiediensten, The Hague, Netherlands
- Kungliga Tekniska Högskolan, Stockholm, Sweden
- Lulea Tekniska Universitet, Lulea, Sweden
- National ICT Australia (NICTA), Australian Technology Park, Eveleigh, Australia
- Peace Research Institute Oslo, Oslo, Norway
- Politecnico di Torino, Torino, Italy
- Poznań University of Technology, Poznań, Poland
- RIGAS TEHNISKA Universitāte, Riga, Lettland
- SENAI Salvador da Bahia Brazil
- SIMULA Research Laboratory, Lysaker, Norway
- Technische Universiteit Delft, Delft, Netherlands
- Technische Universiteit Eindhoven, Eindhoven, Netherlands
- Technische Universität Graz (Graz University of Technology), Graz, Austria
- Technische Universität Wien (Vienna University of Technology), Vienna, Austria
- TNO, Delft, Netherlands
- Universidade Estadual da Paraíba, Campina Grande, Brazil
- Universidade Federal da Bahia, Salvador, Brazil
- University of Bristol, Bristol, United Kingdom
- University of Manchester, Manchester, United Kingdom
- Universidad Politécnica de Madrid, Madrid, Spain
- Universidad Politécnica de Valencia, Valencia, Spain
- Universitetet i Oslo, Oslo, Norway
- VTT Electronics, Oulu, Finland

INTERNATIONAL SOFTWARE ENGINEERING NETWORK (ISERN)

- Aalto University School of Science and Technology (TKK), Dept. of Computer Science and Engineering, Finland
- ABB Corporate Research, USA
- Avaya Labs Research, Software Technology Research Dept., USA
- Beijing University, China
- Blekinge Institute of Technology (BTH), Sweden
- COPPE/Rio de Janeiro Federal University, Brazil
- Fraunhofer Center for Experimental Software Engineering Maryland CESE, USA
- Fraunhofer Institute for Experimental Software Engineering IESE, Germany
- Free University of Bolzano - Bozen, Italy
- Information-technology Promotion Agency (IPA), Japan
- Institute of Software, Chinese Academy of Sciences (ISCAS) - Lab for Internet Software Technology, China
- IT University Copenhagen, Denmark
- Japan Manned Space Systems Corporation (JAMMS), Japan
- Japan Aerospace Exploration Agency (JAXA), Japan

- Lund University, Sweden
- Microsoft Research, USA
- Nanjing University, China
- Nara Institute of Science and Technology, Japan
- Naval Postgraduate School, USA
- North Carolina State University, USA
- Norwegian University of Science and Technology, Norway
- NTT Data Corporation, Japan
- Osaka University, Japan
- Queens University, Belfast, UK
- R&D Ware, Finland
- Ryerson University, Canada
- SeQuOIA Research Labs, USA
- SIMULA, Norway
- SINTEF, Norway
- Software Engineering Research & Practices s.r.l. (SER&Practices), Italy
- Technical University Munich, Germany
- Universidad Politécnica de Madrid, Spain
- Universidad Politécnica de Valencia, Spain
- Università degli Studi dell'Insubria, Italy
- Università degli Studi di Roma Tor Vergata, Italy
- University of Alabama, USA
- University of Alberta, Canada
- University of Bari, Italy
- University of Calgary, Canada
- University of Castilla-La Mancha, Spain
- University of Hawaii, USA
- University of Helsinki, Finland
- University of Kaiserslautern, Germany
- University of Maryland-Baltimore County, USA
- University of Maryland-College Park, USA
- University of New South Wales, Australia
- University of Oslo, Norway
- University of Oulu, Finland
- University of Southern California, USA
- University of Stuttgart, Germany
- University of Tartu - Institute of Computer Science, Estonia
- University of Twente, The Netherlands
- University Politecnico di Torino, Italy
- University of Uruguay (ORT), Uruguay
- Vienna University of Technology, Austria
- VTT Electronics, Finland

VISITORS HOSTED

Prof. Yiannis Papadopoulos, Department of Computer Science, University of Hull, Hull, UK, January 09 - January 10, 2014

Prof. Lionel Briand, Head of Software Verification, Centre for ICT Security, Reliability and Trust (SnT), University of Luxembourg, Luxembourg, Luxembourg, January 30, 2014

Dr. Arshad Ali, Director of School of Electronical Engineering and Computer Science, NUST, National University of Science and Technology, Islamabad, Pakistan, April 04, 2014

Engr Muhammad Asghar, Rector, National University of Science & Technology, NUST, National University of Science and Technology, Islamabad, Pakistan, April 04, 2014

Engr Jalil Moshin, Deputy-Director International Coordination, NUST, National University of Science and Technology, Islamabad, Pakistan, April 04, 2014

Prof. Jan Bosch, Chalmers University of Technology, Gothenburg, Sweden, April 25, 2014

Prof. Kari Likkunen, University of Oulu, Oulu, Finland, May 15 - Nov 15, 2014

Prof. John A. McDermid, Member of the High Integrity Systems Engineering Group (HISE), University of York, York, UK, October 10, 2014

Prof. Neil Maiden, Head of Centre for HCI Design and co-founder of the Center for Creativity in Professional Practice at City University London, City University London, London, UK, November 18, 2014

Stephen Poppe, Director of Business Operations; Dr. Adam Porter, Director for Public Projects & UMD Relations (Acting); Michele Shaw, Engineering Solutions Team Leader; Dr. Mikael Lindvall, Technology Director; Dr. Charles Song, Software Development Team Leader, Fraunhofer Center for Experimental Software Engineering CESE, College Park, MD, USA February 23 – 26, 2015

PROFESSIONAL CONTRIBUTIONS

LECTURING ASSIGNMENTS

Adam, S.:

Lecture
Requirements Engineering,
Computer Science Department,
Mannheim University of Applied Sciences
Summer 2014

Becker, M.:

Seminar
Variantenmanagement
software-intensiver Systeme,
Fraunhofer Academy
October 2014

Bomarius, F.:

Lecture
RA- Einführung in Rechnerarchitekturen, Mechatronics,
Kaiserslautern University of Applied Sciences
Summer 2014

Lecture
OOSE - Objektorientiertes SW
Engineering, Mechatronics,
Kaiserslautern University of Applied Sciences
Summer 2014

Lecture
SEES - SW Engineering für
eingebettete Systeme, Mechatronics,
Kaiserslautern University of Applied Sciences
Winter 2014/2015

Lecture
Verteilte Systeme, Mechatronics,
Kaiserslautern University of Applied Sciences
Winter 2014/2015

Lecture
PDA- Programmierung und
Datenstrukturen, Mechatronics,
Kaiserslautern University of Applied Sciences
Winter 2014/2015

Laboratory Exercises
OOSE - Objektorientiertes SW
Engineering, Mechatronics,
Kaiserslautern University of Applied Sciences
Winter 2014/2015

Doerr, J.:

Lecture
Requirements Engineering,
Computer Science Department,
University of Kaiserslautern
Winter 2014/2015

Lecture
Projekt Agile Methoden I,
Computer Science Department,
University of Kaiserslautern
Winter 2014/2015

3 Single Lectures
Einführung in die Sozialinformatik,
Computer Science Department,
University of Kaiserslautern
Winter 2014/2015

Duszynski, S.:

Seminar
Variantenmanagement
software-intensiver Systeme,
Fraunhofer Academy
October 2014

Goepfert, B.:

Lecture
Organization of Internal
Information Centers, Faculty
III Media, Information and
Design, University of Applied
Sciences and Arts of Hannover
Winter 2014/2015

Heidrich, J.:

Lecture
Process Modeling, Computer
Science Department, University
of Kaiserslautern
Summer 2014

Knodel, J.:

Lecture
Software Architecture, Mannheim
Softwareengineering Institut (MSI), Mannheim
University of Applied Sciences
Summer 2014
Summer 2015

Lecture
Software Architectures for
Distributed Systems, Computer
Science Department,
University of Kaiserslautern
Summer 2015

Liggismeyer, P.:

Lecture
Sicherheit und Zuverlässigkeit
eingebetteter Systeme, Computer
Science Department,
University of Kaiserslautern
Winter 2014/2015

Lecture
Software-Qualitätssicherung,
Computer Science Department,
University of Kaiserslautern
Winter 2014/2015

Putz, W.:

Lecture
XML-Sprachfamilie
Informatik, Darmstadt University
of Applied Sciences
Summer 2014
Winter 2014/2015

Rombach, D.:

Lecture
Empirical Model Building and
Methods, Computer Science
Department, University of
Kaiserslautern
Summer 2014

Lecture
Software Project and Process
Management, Computer Science
Department, University of
Kaiserslautern
Summer 2014

Lecture
Grundlagen des Software Engineering,
Projekt, Computer Science
Department, University of
Kaiserslautern
Summer 2014

Schaefer, S.:

Seminar
Variantenmanagement
software-intensiver Systeme,
Fraunhofer Academy
October 2014

Simon, K.:

Lecture
Entwicklung angriffssicherer
Software, IMST, Kaiserslautern
University of Applied Sciences
Summer 2014

EDITORIAL BOARDS

Bomarius, F.:

Member, Editorial Board, Ph.D. Theses in Experimental Software Engineering, Fraunhofer IRB Publishing Company, since 2001

Dörr, J.:

Journal Reviewer, Business & Information Systems Engineering, since 2010

Journal Reviewer, Requirements Engineering Journal, since 2011

Journal Reviewer, The Computer Journal, since 2011

Journal Reviewer, Information and Software Technology Journal, since 2012

Journal Reviewer, Empirical Software Engineering Journal, since 2012

Journal Reviewer, Journal of Software and Systems Modeling, since 2012

Journal Reviewer, IEEE Software

Elberzhager, F.:

Journal Reviewer, Information and Software Technology - Journal, Elsevier, since 2012

Klaus, A.:

Member, Editorial Board, International Journal on Advances in Systems and Measurements, since 2012

Knodel, J.:

Journal Reviewer, IEEE Software, since 2010

Journal Reviewer, IEEE Transactions on Software Engineering, since 2008

Journal Reviewer, Journal of Systems and Software (JSS), since 2005

Journal Reviewer, Requirements Engineering Journal (REJ), since 2013

Journal Reviewer, Wiley - Software: Practice and Experience, since 2012

Liggemeyer, P.:

Editor, Informatik – Forschung und Entwicklung, Springer, since 2000

Editor, it – information technology, Oldenbourg-Verlag, München, since 2003

Member, Editorial Board, Lecture Notes in Informatics (LNI), Gesellschaft für Informatik GI Springer, since 2003

Member, Editorial Board, Ph.D. Theses in Experimental Software Engineering, Fraunhofer IRB Publishing Company, since 2004

Member, Editorial Board, Informatik-Spektrum, since 2012

Luiz, T.:

Coordinating Editor, Medizinische Gefahrenabwehr, since 2009

Journal Reviewer, Der Anästhesist, since 2010

Journal Reviewer, Notfall und Rettungsmedizin, since 2010

Member, Editorial Board, Notfall und Rettungsmedizin, since 2013

Rombach D.:

Member, Editorial Board, International Journal of Software Process: Improvement and Practice, John Wiley and Sons, since 1994

Associate Editor, International Journal of Empirical Software Engineering, Springer, since 1996

Member, Editorial Board, Ph.D. Theses in Experimental Software Engineering, Fraunhofer IRB Publishing Company, since 2001

Member, Editorial Board, International Journal of Software and Informatics, Institute of Software, Chinese Academy of Sciences, Beijing, since 2007

Member, Editorial Board, "IM Die Fachzeitschrift für Information Management und Consulting", since 2011

Schwarz, R.:

Journal Reviewer, IEEE Transactions on Dependable and Secure Computing, since 2012

Trapp, Mario.:

Journal Reviewer, IEEE Transactions on Software Engineering, since 2008

Journal Reviewer, Elsevier Journal on Systems and Soft-

ware, since 2010

Journal Reviewer, IEEE Software, since 2010

Journal Reviewer, IEEE Transactions on Reliability, since 2010

Journal Reviewer, IEEE Transactions on Systems, Man, and Cybernetics, since 2010

Journal Reviewer, Springer - Software and Systems Modeling, since 2013

Trendowicz, A.:

Associate Editor, e-Informatica Software Engineering Journal (EISEJ), since Nov. 2013

COMMITTEE ACTIVITIES

Adam, S.:

PC Member, CREARE Workshop, Essen
April 7, 2014

Dörr, J.:

PC Member, Reconf 2014, Unterschleißheim
March 11-13, 2014

PC Member, REFSQ'14, Essen
April 7 - 10, 2014

CO-Organizer, CreaRE 2014: Fourth International Workshop on Creativity in Requirements Engineering, REFSQ'14 Essen
April 7, 2014

Organizer, STI-Veranstaltung "Innovatives Software Engineering für die Software der Zukunft", Software-Cluster, Software Technologie Initiative e.V., TU Kaiserslautern and Fraunhofer IESE Kaiserslautern
May 5, 2014

Leader User Group RE, 8. Arbeitstreffen User Group RE Leipzig
May 8 - 9, 2014

PC Member, Second Intl. Workshop on Conducting Empirical Studies in Industry CESI 2014
Hyderabad, India
May 31 - June 2, 2014

PC Member, 8th International Workshop on Software Product Management, IWSPM 2014
Karlskrona, Sweden
August 25 - 29, 2014

PC Member, ERP Future Dornbirn, Austria
November 17 - 18, 2014

Elberzhager, F.:

PC Member, SWQD, SWQD 2014
Vienna, Austria
January 15-16, 2014

PC Member, Euromicro SEAA track
Verona, Italy
August 27-29, 2014

PC Member, Euromicro Espresso track
Verona, Italy
August 27-29, 2014

Heidrich, J.:

PC Member, SWQD 2014
Vienna, Austria
January 14-16, 2014

PC Member, Euromicro DSD/SEAA 2014
Verona, Italy
August 27-29, 2014

PC Member, Metrikon 2014
Stuttgart
November 6-7, 2014

PC Member, PROFES 2014
Helsinki, Finland
December 10-12, 2014

PC Member, Euromicro, DSD/SEAA 2015
Funchal (Madeira), Portugal
August 26-28, 2015

Liggismeyer P.:

Author, HASE 2014
Miami, USA
January 9-11, 2014

PC Member, ERST 2014 Toulouse, France
Feb 5-7, 2014

PC Member, CVT Symposium Kaiserslautern
March 11-13, 2014

PC Member, EITEC 2014
Berlin
April 14-17, 2014

PC Member, CPS Week 2014
Berlin
April 14-17, 2014

Kläs, M.:

PC Member, Software & Web Engineering, 40th Intl. Conf. on Current Trends in Theory and Practice of Computer Science
High Tatras, Slovakia
January 25-30, 2014

PC Member, SOFSEM 2014
High Tatras, Slovakia
January 25-30, 2014

PC Member, SEAA 2014
Verona, Italy
August 27-29, 2014

PC Member, ESEM 2014
Torino, Italy
September 18-10, 2014

Klaus, A.:

Research Industry Liaison Chair, The Sixth International Conference on Advances in System Testing and Validation Lifecycle (VALID), VALID 2014
Nice, France
October 12 - 16, 2014

PC Member, The Sixth International Conference on Advances in System Testing and Validation Lifecycle (VALID), VALID 2014
Nice, France
October 12 - 16, 2014

Knodel, J.:

PC Member, CSMR-18/WCRE-21 (Software Evolution Week - Joint 18th European Conference on

Software Maintenance and Reengineering / 21st Working Conference on Reverse Engineering)
Antwerp, Belgium
February 3-6, 2014

PC Member, First Workshop on Software Architecture Erosion and Architectural Consistency (SAEroCon2014), Working IEEE/IFIP Conference on Software Architecture (WICSA) 2014, Sydney, Australia
April 7-11, 2014

PC Member, 23rd IEEE International Conference on Program Comprehension (ICPC 2015)
Florence, Italy
May 18-19, 2015

PC Member, Industry Track, 22nd Annual International Conference on Program Comprehension (ICPC 2014)
Hyderabad, India
June 3-4, 2014

PC Member, 30th IEEE International Conference on Software Maintenance and Evolution (ICSME 2014)
Victoria, British Columbia, Canada
September 28 - October 3, 2014

PC Member, Ninth International Conference on Software Engineering Advances (ICSEA 2014)
Nice, France
October 12-16, 2014

PC Member, 23rd IEEE International Conference on Program Comprehension (ICPC 2015)

Florence, Italy
May 18-19, 2015

PC Member, First International Conference on Fundamentals and Advances in Software Systems Integration (FASSI), Venice, Italy
August 23 - 28, 2015

PC Member, 31st IEEE International Conference on Software Maintenance and Evolution (ICSME), Bremen
September 29 - October 01, 2015

PC Member, Tenth International Conference on Software Engineering Advances (ICSEA), Barcelona, Spain
November 15 - 20, 2015

Kuhn, T.:
PC Member, Memcode 2014
Lausanne, Switzerland
October 19-21, 2014

Naab, M.:
PC Member, Software Architecture Metrics (SAM), WICSA 2014
Sydney, Australia
April 07-11, 2014

Oliveira Antonino de Assis, P.:
PC Member, ICSEA 14
Nice, France
October 12-16, 2014

Schwarz, R.:
Workshop Chair, First IESE Workshop on Safety & Security
Kaiserslautern
September 16, 2014

PC Member, International Conference on Security Technology (SecTech 2014)
Hainan, China
December 20-23, 2014

Trapp, Marcus:
Workshop Chair, 1st International Workshop on Requirements Engineering for the Precontract Phase (RE4P2), REFSQ'14
Essen
April 7, 2014

Trapp, Mario:
PC Member, CPS Week 2014, Cyber-Physical Systems
Berlin
April 14-17, 2014

PC Member, Models 2014
Valencia, Spain
September 28 - October 3, 2014

Conference Chair, Safetronic 2014
Stuttgart
November 11-12, 2014

Villela, K.:
PC Member, 8th International Workshop on Variability Modelling of Software-intensive Systems, VaMoS 2014
Nice, France
January 22-24, 2014

Webel, C.:
PC Member, 23rd Australian Software Engineering Conference (ASWEC '14)
Sydney, Australia
April 7-10, 2014

SCIENTIFIC AND TECHNOLOGICAL ADVISORY BOARDS

Dörr, J.:
Spokesperson (& Member), Gesellschaft für Informatik / Fachgruppe Requirements Engineering, since 2010

Member, Steering Committee, Intl. Conference on Requirements Engineering: Foundation for Software Quality (REFSQ), since 2011

Göpfert, B.:
Member, Fraunhofer AG "Information to Go"
Fraunhofer-Gesellschaft e.V., Munich, since October 2012

Klaus, A.:
Member, VDI Fachausschuss "Qualitätssicherung für Software in der Medizintechnik", Düsseldorf, since 2009

Liggesmeyer, P.:
Chair, GI Special Interest Group "Softwaretechnik" since 1999

Member, Steering Committee, Gesellschaft für Informatik, since 2009

Member, Fraunhofer Allianz Embedded Systems since 2010

Member, University Council, University of Applied Sciences Darmstadt, since 2011

President, Gesellschaft für Informatik e.V. (GI), Bonn since 2014

Rombach, D.:
Coordinator, ISERN (International Software Engineering Research Network) since 1996

Member, Advisory Board, Fraunhofer Center Maryland, College Park, USA since 1998

Member, Advisory Board, Otto A. Wipprecht-Stiftung since 1999

Member, Advisory & Expert Group for the Minister President of Rhineland-Palatinate since 2002

Member, Scientific Advisory Board, NICTA (National Information and Communications Technologies Australia), Australia, since 2006

Member, Steering Committee, KIST (Korea Institute of Science and Technology) Europe Forschungsgesellschaft mbH, Korea, since 2006

Chair, IEEE Harlan D. Mills Award, since 2009

Chair, SEI Process Achievement Award, USA since 2009

Member, Advisory Board, fortiss, Munich since 2009

Member, Advisory Group to the Minister President of Rhineland-Palatinate on "Digital Development and Culture", since 2013

Member, Global Technology Innovation Advisory Council, John Deere, since 2013

Schwarz, R.:
Founding Member, International Secure Software Engineering Council (ISSECO), Potsdam, since 2008

MEMBERSHIPS IN INDUSTRIAL ADVISORY BOARDS

Rombach, D.:

Member, Advisory Board, Siftung der Gasanstalt, Kaiserslautern, since 2002

Member, Advisory Board, Stadtparkasse Kaiserslautern, Kaiserslautern, since 2004

Chairman of the Board, 1. FC Kaiserslautern (Professional Soccer Club), Kaiserslautern, since 2008

Member, Global Technology Innovation Advisory Council, John Deere, since 2013

Member of the Board, Science Alliance Kaiserslautern, Kaiserslautern, since 2013

Schwarz, R.:

ISECCO, International Secure Software Engineering Council e. V., Potsdam, since 2012

MEMBERSHIPS IN PROFESSIONAL ASSOCIATIONS

AAL-Allianz

Access SOS Emergency

ACL – Association for Computational Linguistics

ACM – Association of Computing Machinery

AGBC – American-German Business Club Deutschland e.V.

AMS – American Mathematical Society

ASQF e.V. – Arbeitskreis Software-Qualität in Franken

Bitkom – Bundesverband Informationswirtschaft, Telekommunikation und neue Medien e.V.; Arbeitskreise: Barrierefreiheit und Usability; Mobile

BV-Päd. – Bundesverband der Diplom-Pädagoginnen und Diplom-Pädagogen e.V.

CAST e.V.

CVC – Commercial Vehicle Cluster

DASMA – German Software Metrics and Effort Estimation Association

DGI – Deutsche Gesellschaft für Informationswissenschaft und Informationspraxis e.V.

DIN – Deutsches Institut für Normung

Förderverein Informatik TU KL/FIT

Fraunhofer Academy

Freundeskreis TU KL

GC UPA – German Chapter of the Usability Professionals' Association

GDM – Gesellschaft für Didaktik der Mathematik

German UPA - Arbeitskreis User Research

GFaI – Gesellschaft zur Förderung angewandter Informatik e.V.

GFFT – Gemeinnützige Gesellschaft zur Förderung des Forschungstransfers e.V.

GI – Gesellschaft für Informatik, GI-Fachgruppen Automotive Software Engineering und Requirements Engineering

idw – Informationsdienst Wissenschaft

IEEE – Institute of Electrical and Electronic Engineers

Indian Institute of Science - Advisory Council

IMA – Institute of Mathematics and its Application

ISQI (Weit e.V.)

ISSECO – International Secure Software Engineering Council

IuK – Fraunhofer Information and Communication Group

LAP – Liberty Alliance Project

MedTech Pharma

NEGZ – Nationales E-Government Kompetenzzentrum

OMG – Object Management Group

SafeTRANS – Safety in Transportation Systems

Science Alliance Kaiserslautern e.V.

STI – Software Technologie Initiative e.V.

Tekom – Fachverband für technische Kommunikation und Dokumentation

Uni-KiTA

VDMA – Arbeitskreis Mobile Apps & Co.

VDR – Verband Deutsches Reisemanagement e.V.

Softwareforen Leipzig GmbH

XING AG

KEYNOTES

Elrakaiby, Y.:

Dynamic Analysis of Usage Control Policy, 11th International Conference on Security and Cryptography, Vienna, Austria August 28, 2014

Security@Runtime for Usage Control Specification, Enforcement and Violation Management, Individual and Collective Reasoning Seminar, Luxembourg, Luxembourg November 19, 2014

Knodel, J.:

Mitigating the Risk of Software Change in Practice – Retrospective on More than 50 Architecture Evaluations in Industry, IEEE CSMR-WCRE Software Evolution Week, Antwerp, Belgium February 5, 2014

Liggesmeyer, P.

Future Talk „100% Digitale Wirtschaft“, CeBIT, Hanover March 10, 2014

Standardisierung und Industrie 4.0, Wirtschaftsrat der CDU, Berlin March 13, 2014

Informationssicherheit im Stromnetz der Zukunft, CeBIT, Hanover March 14, 2014

Softwarequalitäts- und Testmanagement, Konferenz Volkswagen, Wolfsburg March 24, 2014

Big Data, Industrie 4.0 und Co. – wie sich die Wirtschaft verändert, Jahrestagung Wettbewerbszentrale, Stuttgart May 7, 2014

Zukunft der Digitalen Gesellschaft, Konferenz: Zukunft der Digitalen Gesellschaft, Berlin September 15, 2014

Nutzfahrzeuge der Zukunft – Roadmap 2013 der Commercial Vehicle Alliance Kaiserslautern, IAA-Symposium „Nutzfahrzeuge der Zukunft“, Hanover September 29, 2014

Mit Industrie 4.0 in die Breite - Herausforderungen vernetzter Systeme im ländlichen Raum, Smart Country Abschlussveranstaltung, Berlin October 9, 2014

Frauen in Führungspositionen, KL Connect Women, Kaiserslautern November 25, 2014

SPES-Methode zur Entwicklung von Embedded Software, ESE-Kongress, Sindelfingen December 4, 2014

Rombach, D.:

Fraunhofer: Partner for Innovation - Software & Systems Engineering, Seminar, John Deere Corp., ISG Group, Urbandale, Iowa, USA April 14, 2014

Trapp, M.:

Mit Spaß bei der Arbeit eine höhere Kundenzufriedenheit erzielen, Customer Interaction Circle, Frankfurt/Main September 26, 2014

PRESENTATIONS

Adam, S.:

Requirements Engineering in Zahlen – Ergebnisse der RE-Kompass-Umfrage 2013, Presentation, RECONF 2014 HOOD, Munich March 10, 2014

„Requirements engineers“ in Aktion: statistische Daten über RE-Verantwortliche, Presentation, GI Fachgruppentreffen “Requirements Engineering“, Adesso, Dortmund November 28, 2014

Adler, R.:

Towards safe autonomous driving, Presentation, CVT Symposium, TU Kaiserslautern, Kaiserslautern March 8-11, 2014

Assuring safety for autonomous driving vehicles, Presentation, AutomotiveSYS2014, Berlin July 9-11, 2014

Diebold, P.:

Supporting Technology Transfer by Providing Recommendations for Writing Structured Guidelines, Workshop Talk, SE 2014 - ENVISION2020, GI, Kiel February 26, 2014

Agile practices in practice: a mapping study, Full Paper Track, EASE 2014, London, UK May 14, 2014

Evaluation in practice: artifact-based requirements engineering and scenarios in smart mobility domains, Industry Track, ESEM 2014, Turin, Italy September 19, 2014

Bridging the Gap: SE Technology Transfer into Practice – Study Design and Preliminary Results, ShortPaper Track, ESEM 2014, Turin, Italy September 19, 2014

Challenges in a Creative and Dynamic Environment: A Process Review at a Medium-sized Web Company, Tutorial, Metrikon 2014, DASMA, Stuttgart November 6-7, 2014

Initial Data Triangulation of Agile Practices Usage: Comparing Mapping Study and Survey Results, Short Paper Track, PROFES 2014, Helsinki, Finland December 11, 2014

Challenges in a Creative and Dynamic Environment: A Process Review at a Medium-sized Web Company, Paper, Stuttgart December 11, 2014

Dörr, J.:

Smart Ecosystems: Combining IT and Embedded World, Talk, PLE-Day Siemens, Siemens, Munich January 14 - 15, 2014

Requirements Engineering: Trends und aktuelle Entwicklungen, Talk, Jahrestreffen Softwareforen Leipzig, Software Foren Leipzig, Leipzig March 3 - 4, 2014

Erfahrungen mit einem RE Spiel, Talk, Workshop LehRE, Gesellschaft für Informatik e. V., Kiel February 25, 2014

Innovation Potential and Challenges in Smart Ecosystems, Talk, Silicon Saxony Days Dresden, Silicon Saxony Dresden
July 3, 2014

Industrie 4.0 & Smart Ecosystems – Potenziale & Herausforderungen im Software Engineering, Talk, Accso (Accelerated Solutions GmbH), Boppard
July 4, 2014

Future @ Cloud: Cloud Computing meets Smart Ecosystems, Talk, EIT ICT Labs Symposium on Trusted Cloud and Future Enterprises, EIT ICT Labs, Oulu, Finland
August 12 - 14, 2014

Göpfert, B.:
Mobile Fachinfo »in Aktion«: Apps von GENIOS, Gartner und LexisNexis, Presentation, Fraunhofer-Jahrestagung der Fachinformationsmanager 2014, Berlin
October 14, 2014

Der "digitale Wandel": Umsetzung in der Informationspraxis, Presentation, Study Course "Information Management", Hochschule Hannover, University of Applied Sciences and Arts, Hannover, December 15, 2014

Heidrich, J.:
Metriken: Tools und Hofstede Metriken, Tutorial, Metrikon 2014, DASMA, Stuttgart
November 6-7, 2014

Hess, S.:
Talk, VDMA Arbeitskreis, VDMA, Frankfurt
April 4, 2014

Usability und User Experience von Morgen, Lecture, User Group Usability, Software Foren Leipzig, Leipzig
May 16, 2014

Intuitiver, kreativer, innovativer. Mit „IBIS“ zum gelungenen (Re-)Design, Talk, Mensch und Computer 2014 München, German UP, Munich
August 31, 2014

Integration von Best Practices des Usability und User-Experience-Engineering in agile Entwicklungsprozesse, Talk, Mensch und Computer 2014 München, German UP, Munich
August 31, 2014

Arbeitskreis User Research - Was ist User Research?, Talk, Mensch und Computer 2014 München, German UP, Munich
September 1, 2014

Fallstudie über die Konzeption einer mobilen App zur Parkunterstützung in Kaiserslautern, Lecture, Mensch und Computer 2014 München, German UP, Munich
September 2, 2014

Mobilität als Akzeptanzfaktor - Mobile Lösungen für die Zukunft, Lecture, Podiumsdiskussion Business-Forum IT & Business, Stuttgart
October 9, 2014

Trend Mobile und Einfluss auf das Requirements Engineering, Lecture, User Group Requirements Engineering, Software Foren Leipzig, Leipzig
December 8, 2014

Jung, C.:
Sicherheit im Netz, Presentation, Metall- und Fahrzeugcluster, Fuchs Lubritech GmbH / IG Nord, Kaiserslautern
May 15, 2014

Enhancing Cloud Security with Context-aware Usage Control Policies, Paper, CloudCycle 2014 Workshop, INFORMATIK14: Big Data – Komplexität meistern, Stuttgart
September 22, 2014

Usage Control for the Cloud, Presentation, Building Trust in Cloud, SECCRIT consortium, EuroCloud, EURITAS together with BRZ, Vienna, Austria
September 23, 2014

Data Usage Control with the IND²UCE Framework, Invited lecture, Bits That Byte, FH Burgenland, Eisenstadt, Austria
September 26, 2014

Klaus, A.:
Automatisierte Prüfung der Qualität natürlichsprachlicher Anforderungen, Presentation, STI e.V., Software Technologie Initiative e.V., Kaiserslautern
April 10, 2014

Retrieving the State of the Art and of the Practice in QA for Data Inconsistencies, Paper, Metrikon 2014, DASMA, Stuttgart
November 07, 2014

Knodel, J.:
Variantenmanagement – Erfahrungen und Fallstricke, Invited Presentation, Projektmanagement Tag (PM Day), Siemens CT, Erlangen
April 10, 2014

Data Usage Control in Smart Farming, Invited Presentation, Geospatial World Forum, Geospatial Media and Communications, Geneva, Switzerland
May 08, 2014

Integration Enables Innovation!, Invited Presentation, Innovationsworkshop, BASF, Ludwigshafen
September 16, 2014

Software Architecture in Future Automotive Systems, Invited Presentation, 1st DENSO Global Software Research Workshop, DENSO, Eching
October 07, 2014

Luiz, T.:
Concept and contents of the Blended-Learning based Stroke Nurse Course, Invited lecture, Symposium of Stroke Unit Certification, Stroke Nurse Medical Education and Training for Medical Staff, Dubai Health Authority, Dubai, United Arab Emirates
January 28, 2014

Kenntnisstand über Zuständigkeit und Erreichbarkeit von Notfalleinrichtungen, Oral presentation, Wissenschaftliche Arbeitstage Notfallmedizin, Deutsche Gesellschaft für Anästhesiologie und Intensivmedizin, Kiel
February 02, 2014

Zentraler Bettennachweis, es geht besser!, Invited lecture Deutscher Interdisziplinärer Notfallmedizin Kongress, Deutsche Gesellschaft für Anästhesiologie und Intensivmedizin, Wiesbaden
March 20, 2014

Struktur-, Prozess- und Ergebnisqualität: Woran sind sie messbar?, Invited lecture, Deutscher Interdisziplinärer Notfallmedizin Kongress, Deutsche Gesellschaft für Anästhesiologie und Intensivmedizin, Wiesbaden March 20, 2014

Zentraler Landesweiter Behandlungskapazitätsnachweis, Invited lecture, Tagung Traumanetzwerk Saar-Lor-Lux-Westpfalz, Städt. Krankenhaus, Pirmasens March 19, 2014

KZEN-Studie, Invited lecture Tagung Traumanetzwerk Saar-Lor-Lux-Westpfalz, Städt. Krankenhaus, Pirmasens March 19, 2014

KZEN-Studie: Kenntnisstand über Zuständigkeit und Erreichbarkeit von Notrufeinrichtungen, Poster presentation, Deutscher Anästhesie Congress, Deutsche Gesellschaft für Anästhesiologie und Intensivmedizin, Leipzig May 9, 2014

Vorkehrungen für den MANV-Fall im Fritz-Walter-Stadion: Sichtung- Transport-Patientenzuteilung, Invited lecture, Tagung Traumanetzwerk Pfalz, Westpfalz-Klinikum GmbH, Kaiserslautern July 2, 2014

Organisation und Rechtsgrundlagen des Rettungsdienstes, Oral presentation, Kursus zur Erlangung der Zusatzbezeichnung Notfallmedizin, BG-Klinik Ludwigshafen und Klinikum Ludwigshafen, Ludwigshafen July 5, 2014

Fahrzeuge des Rettungsdienstes, Oral presentation, Kursus zur Erlangung der Zusatzbezeichnung Notfallmedizin, BG-Klinik Ludwigshafen und Klinikum Ludwigshafen, Ludwigshafen July 5, 2014

Invasive Techniken in der Notfallmedizin, Tutorial, INTECH-Seminar, Universität Heidelberg, Heidelberg October 18, 2014

Lebensbedrohliche Komplikationen bei der Anwendung des Larynx-tubus, Oral presentation, Weiterbildungsreihe „Anästhesie und Notfallmedizin“, Westpfalz-Klinikum GmbH, Kaiserslautern Nov 5, 2014

Voneinander lernen: Best Practice zu Rekrutierung, Bildung und Bindung von Fach- und Führungskräften in der Gesundheitswirtschaft, Panel discussion, Fachtagung „Blickpunkt Neue Perspektiven am Arbeitsmarkt“, MSAGD Rheinland-Pfalz, Kaiserslautern December 16, 2014

Naab, M.:
Zukunftssichere Software Systeme mit Architekturbewertung: Wann, Wie und Wieviel?, Tutorial, SE 2014, Uni Kiel, Kiel February 25, 2014

Architecture Evaluation for Practitioners, Tutorial, WICSA 2014, NICTA, Sydney, Australia April 7, 2014

Variability: architectural challenges and ideas in practice, Invited Presentation, VARSA 2014, NICTA, Sydney, Australia April 8, 2014

Software Architecture Evaluation in Practice - Retrospective on more than 50 Architecture Evaluations in Industry, Paper, WICSA 2014, NICTA, Sydney, Australia April 9, 2014

Architekturbewertung in der Praxis – Erfahrungen aus mehr als 50 Bewertungsprojekten in der Industrie, Invited Presentation, User Group Softwarearchitektur, Softwareforen Leipzig, Leipzig May 13, 2014

Putz, W.:
Selbstbestimmtes und sicheres Leben zu Hause – Unterstützungsmöglichkeiten durch Technik, Oral Presentation, Westerwald-Dialog sozial, Stiftung Bethesda, Höhr-Grenzhausen August 04, 2014

Riegel, N.:
An Analysis of Priority-based Decision Heuristics for Optimizing Elicitation Efficiency, Oral Presentation, REFSQ 2014, Paluno – The Ruhr Institute for Software Technology, Essen April 9, 2014

Rombach, D.:
Fraunhofer Institute for Experimental Software Engineering, Colloquium, University of Oulu, Oulu, Finland January 9, 2014

Fraunhofer as a Success Model for Applied Research and Technology Transfer, Colloquium, University of Luxembourg, Luxembourg, February, 19, 2014

Die Fussball-Bundesliga – Was Sie schon immer wissen wollten?, Talk, Rotary Kurpfalz, Rotary Club Kaiserslautern, Kaiserslautern February 20, 2015

Möglichkeiten und Chancen neuer Technologien für die Gesundheitsversorgung, Gespräch mit dem Rheinland-Pfälzischen Gesundheitsminister Alexander Schweitzer CeBIT 2014, IT-Planungsrat Stand, CeBIT, Hanover March 12, 2014

Podiumsdiskussion des 6. Lauterer Energieforums, Participant Panel discussion, 6. Lauterer Energieforum, Kaiserslautern March 12, 2014

Wachstum der digitalen Standortsicherheit, Impulsvortrag, "Cybersecurity Executive Breakfast", Vienna, Austria October 15, 2014

Podiumsdiskussion zum Thema „Digital ist besser: verschlafen wir die Software-Revolution?“, Participant Panel discussion, Parlamentarischer Abend des Softwareclusters November 12, 2014

SUSI TD: Technik und Beratung zur Unterstützung selbstständiger Lebensführung, Vortrag, 3. Rheinland-Pfälzischer Geriatrietag, Andernach
December 12, 2014

Rost, D.:
Produktqualität in agilen Entwicklungsvorgehen, Talk, BITKOM Software Summit, BITKOM, Frankfurt
September 23, 2014

Rudolph, M.:
Security Policy Specification Templates for Critical Infrastructure Services in the Cloud, Workshop Talk, CAS 2014, Infonomics Society, London, UK
December 8, 2014

Public Key Infrastruktur, Lecture, Master-Lecture, „Kryptographie“, Mannheim University of Applied Sciences, Mannheim
December 15, 2014

Schwarz, R.:
My Thoughts on Safety and Security Metrics, Workshop Presentation, First IESE Workshop on Safety & Security, Fraunhofer IESE, Kaiserslautern
September 16, 2014

Trapp, Marcus:
Mit iterativer Konzeption zu innovativen Apps, Talk, CeBIT 2014, Hanover
March 10, 2014

Unleash your Corporate Creativity, Workshop, Fourth International Workshop on Creativity in Requirements Engineering (CreaRE), REFSQ 2014, Essen
April 7, 2014

Vortrag zum Thema Usability @ bit Informatik, Talk, DNUG - The Enterprise Collaboration Professionals e.V., Leipzig
November 11-12, 2014

Considering Consistency Consistently, Talk, UX Day, Mannheim
November 23, 2014

Innovative Mobile Service Design, Talk, World Class Mobile Collaboration 2014, Frankfurt/Main,
December 3-4, 2014

van Lengen, R.:
SUSI TD - Sicherheit und Unterstützung von Senioren durch Integration von Technik und Dienstleitung, Short Presentation, Fachtagung Zukunftsprogramm „Gesundheit und Pflege 2020“, Rheingoldhalle, Mainz
September 17, 2014

Zentraler Behandlungskapazitätennachweis – Anspruch und Wirklichkeit / Notfallmedizinische Struktur und Prozessoptimierung, Symposium Talk, 10. Notfallmedizinisches Landessymposium Rheinland-Pfalz, Bundeswehrzentral Krankenhaus Koblenz, Koblenz
November 8, 2014

Vidal, S.:
Metric Tools: An Overview on Existing Tools and their Features, Presentation, Metrikon 2014, DASMA, Stuttgart
November 6 - 7, 2014

Webel, C.:
Model Based Requirements and Systems Engineering, Talk, AVL Research Day 2014, Graz, Austria
February 26, 2014

Wie schreibe ich eine gute Anforderungsspezifikation, Talk, med. Software 2014, Nuremberg
April 2-3, 2014

Pragmatisches Systems Engineering, Talk, Swiss Requirements Engineering Day 2014, Zurich, Switzerland
June 18, 2014

SCIENTIFIC CONTRIBUTIONS²

BOOKS

Basili, Victor R.; Trendowicz, Adam; Kowalczyk, Martin; **Heidrich, Jens;** **Seaman, Carolyn B.;** Münch, Jürgen; **Rombach, H. Dieter:** Aligning Organizations Through Measurement. The GQM+Strategies Approach. Cham: Springer-Verlag, 2014. (The Fraunhofer IESE Series on Software and Systems Engineering). DOI 10.1007/978-3-319-05047-8 ISSN 2193-8199 ISBN 978-3-319-05046-1

Adam, Sebastian; Koch, Matthias; **Neffgen, Fabian; Riegel, Norman;** **Weidenbach, Justine:** Business Process Management – Marktanalyse 2014: BPM Suites im Test Stuttgart: Fraunhofer Verlag, 2014. ISBN 978-3-8396-9389-6

Brunetti, Gino (Ed.); Feld, Thomas (Ed.); Heuser, Lutz (Ed.); Schnitter, Joachim (Ed.); **Webel, Christian (Ed.):** Future Business Software. Current Trends in Business Software Development. Heidelberg: Springer-Verlag, 2014. (Progress in IS) ISSN 2196-8705 DOI 10.1007/978-3-319-04144-5 ISBN 978-3-319-04143-8

Trendowicz, Adam; Jeffrey, Ross: Software Project Effort Estimation. Foundations and Best Practice Guidelines for Success. Cham: Springer-Verlag, 2014. ISBN 978-3-319-03628-1 DOI 10.1007/978-3-319-03629-8

ARTICLES IN BOOKS

Trendowicz, Adam; Kopczyńska, Sylwia: Adapting Multi-Criteria Decision Analysis for Assessing the Quality of Software Products. Current Approaches and Future Perspectives. In: Memon, Arif (Ed.): Advances in Computers. Volume 93. Amsterdam: Elsevier Science Inc., 2014, 153-226. (Advances in Computers Vol. 93). DOI 10.1016/B978-0-12-800162-2.00004-X

Rombach, H. Dieter; Kläs, Michael; **Webel, Christian:** Measuring the Impact of Emergence in Business Applications. In: Brunetti, Gino (Ed.); Feld, Thomas (Ed.); Heuser, Lutz (Ed.); Schnitter, Joachim (Ed.); **Webel, Christian (Ed.):** Future Business Software. Current Trends in Business Software Development. Heidelberg: Springer-Verlag, 2014, 25-37. (Progress in IS) DOI 10.1007/978-3-319-04144-5_3

Heidrich, Jens; Rombach, H. Dieter; **Kläs, Michael:** Model-Based Quality Management of Software Development Projects. In: Ruhe, Günther (Ed.); Wohlin, Claes (Ed.): Software Project Management in a Changing World. Berlin: Springer-Verlag, 2014, 125-156. DOI 10.1007/978-3-642-55035-5_6

Aßmann, Uwe; Götz, Sebastian; Jézéquel, Jean-Marc; Morin, Brice; **Trapp, Mario:** A Reference Architecture and Roadmap for Models@run.time Systems. In: Bencomo, Nelly (Ed.); France, Robert (Ed.); Cheng, Betty (Ed.); Aßmann, Uwe (Ed.): Models@run.time. Foundations, Applications, and Roadmaps. Cham: Springer-Verlag, 2014, 1-18. (Lecture Notes in Computer Science 8378).- DOI 10.1007/978-3-319-08915-7_1

Trapp, Mario; Schneider, Daniel: Safety Assurance of Open Adaptive Systems - A Survey. In: Bencomo, Nelly (Ed.); France, Robert (Ed.); Cheng, Betty (Ed.); Aßmann, Uwe (Ed.): Models@run.time. Foundations, Applications, and Roadmaps. Cham: Springer-Verlag, 2014, 279-318. (Lecture Notes in Computer Science 8378). DOI 10.1007/978-3-319-08915-7_11

Liggesmeyer, Peter; Trapp, Mario: Safety: Herausforderungen und Lösungsansätze. In: Bauernhansl, Thomas (Hrsg.); ten Hompel, Michael (Hrsg.); Vogel-Heuser, Birgit (Hrsg.): Industrie 4.0 in Produktion, Automatisierung und Logistik. Anwendung, Technologien, Migration. Wiesbaden: Springer Vieweg, 2014, 433-450. - DOI 10.1007/978-3-658-04682-8_21

Liggesmeyer, Peter: Software in sicherheitskritischen Systemen. In: Pfeifer, Tilo (Hrsg.); Schmitt, Robert (Hrsg.): Masing Handbuch Qualitätsmanagement. München: Carl Hanser Verlag, 2014, 902-920.

Cheng, Betty; Eder, Kerstin I.; Gogolla, Martin; Grunske, Lars; Litoiu, Marin; Müller, Hausi A.; Pelliccione, Patrizio; Perini, Anna; Qureshi, Nauman A.; Rumpe, Bernhard; **Schneider, Daniel;** Trollmann, Frank; Villegas, Norha M.: Using Models at Runtime to Address Assurance for Self-Adaptive Systems. In: Bencomo, Nelly (Ed.); France, Robert (Ed.); Cheng, Betty (Ed.); Aßmann, Uwe (Ed.): Models@run.time. Foundations, Applications, and Roadmaps. Cham: Springer-Verlag, 2014, 101-136. (Lecture Notes in Computer Science 8378). DOI 10.1007/978-3-319-08915-7_4

2) Names of Fraunhofer IESE and CESE members appear in bold.

Katoen, Joost-Pieter; **Nguyen, Viet Yen**; Noll, Thomas:
Formal Validation Methods in Model-Based Spacecraft Systems Engineering. In: Gianni, Danilie (Ed.); D'Ambrogio, Andrea (Ed.); Tolk, Andreas (Ed.): Modeling and Simulation-Based Systems Engineering Handbook. Boca Raton: CRC Press, 2015, 339-376. (Engineering Management Book Series).

ARTICLES IN JOURNALS

Krogmann, Klaus; **Naab, Matthias**; Hummel, Oliver:
Agile Anti-Patterns. Warum viele Organisationen weniger agil sind, als sie denken. In: Business Technology. (2014), 2, 29-34.

Elberzhager, Frank; Münch, Jürgen; Assmann, Danilo:
Analyzing the relationships between inspections and testing to provide a software testing focus. In: Information and Software Technology. 56 (2014), 7, 793-806. DOI 10.1016/j.infsof.2014.02.007

Herrmann, Andrea; Houdek, Frank; **Doerr, Joerg**; Knauss, Eric; Schneider, Kurt:
Bericht vom Treffen der Fachgruppe 2.1.6. "Requirements Engineering" am 28./29.11.2013 in Ilmenau. In: Softwaretechnik-Trends. 34 (2014), 1, 1-2.

Liggesmeyer, Peter; **Doerr, Joerg**; **Heidrich, Jens**:
Big Data in Smart Ecosystems. In: Informatik Spektrum. 37 (2014), 2, 105-111. DOI 10.1007/s00287-014-0772-x

Doerr, Joerg; **Eisenbarth, Michael**:
Datenkontrolle der Zukunft. Sicherheitsrichtlinien über Systemgrenzen hinweg eigenverantwortlich durchsetzen können. In: IM + io. Das Magazin für Innovation, Organisation und Management. 29 (2014), Sonderheft 1, 52-58.

Storf, Holger; **Jedlitschka, Andreas**; Knaup, Petra; Dickhaus, Hartmut:
Detection of physical helplessness at home using ambient sensor information. In: Journal of Ambient Intelligence and Smart Environments. 6 (2014), 2, 137-155.

Schneider, Daniel; Armengaud, Eric; Schoitsch, Erwin; Hufeld, Knut:
EMC² AIPP. ARTEMIS CALL 2013. In: Artemis Magazine. (2014), 17, 22-23.

Kuhn, Thomas; **Kalmar, Ralf**:
Fit for Multicore. In: ATZ elektronik. 9 (2014), 2, 72-75.

Luiz, Thomas; Preisegger, T.; **Rombach, H. Dieter**; Madler, Christian:
Herz-Kreislauf-Stillstände bei Zuschauern in deutschen Fußballarenen. In: Der Anaesthesist. 63 (2014), 8-9, 636-642. DOI 10.1007/s00101-014-2354-3

Elberzhager, Frank; Münch, Jürgen; **Rombach, H. Dieter**; Freimut, Bernd:
Integrating inspection and test processes based on context-specific assumptions. In: Journal of Software: Evolution and Process. 26 (2014), 4, 371-385; First Published Online: 30 Aug 2012. DOI 10.1002/smr.1569

Spanier-Baro, Nicole; **Trapp, Mario**:
Landleben 2.0. Vom smarten Leben auf dem Lande. In: digitale welt. (2014), 3, 28-31.

Rapp, Daniel; Seyff, Norbert; **Hess, Anne**; Spörri, Peter; Glinz, Martin; Fuchs, Emmerich:
Leichtgewichtige Requirements Engineering Assessments in Softwareprojekten. In: Softwaretechnik-Trends. 34 (2014), 1, 9-10.

Doerr, Joerg; **Hess, Steffen**; **Trapp, Marcus**:
Mobile Prozesse. Eine Chance für die Wirtschaft. In: Computerwoche. (2014), 10, 13-15.

- Braun, Tobias; Gotzhein, Reinhard; **Kuhn, Thomas**: Model-Based Scheduling with Fast Mode-Signaling - A Method for Efficient Usage of Network Time Slots. In: Journal of Advances in Computer Networks. 2 (2014), 1, 48-57. DOI 10.7763/JACN.2014.V2.81
- Meiland, F.J.M.; Hattink, B.J.J.; Overmars-Marx, T.; Boer, M.E. de; **Jedlitschka, Andreas**; Ebben, P.W.G.; Stalpers-Croeze, Ir.I.N.M.; Flick, Simone; Leuw, J. van der; Karkowski, I.P.; Döres, R.M.: Participation of end users in the design of assistive technology for people with mild to severe cognitive problems; the European Rosetta project. In: International Psychogeriatrics. 26 (2014), 5, 769-779. DOI 10.1017/S1041610214000088
- Gries, André; Lenz, W.; Stahl, Petra; Spiess, R.; **Luiz, Thomas**: Präklinische Versorgungszeiten bei Einsätzen der Luftrettung. Einfluss der Dispositionsstrategie der Rettungsleitstelle. In: Der Anaesthesist. 63 (2014), 7, 555-562. DOI 10.1007/s00101-014-2340-9
- Luiz, Thomas**; Jung, Jessica; Flick, Simone: Quo vadis, Notarzt? Ergebnisse einer Befragung der Notarztstandorte in Rheinland-Pfalz. In: Der Anaesthesist. 63 (2014), 4, 294-302. DOI 10.1007/s00101-014-2309-8
- Bjarnason, Elizabeth; **Hess, Anne**; Bern-tsson Svensson, Richard; Regnell, Björn; **Doerr, Joerg**: Reflecting on Evidence-Based Timelines. In: IEEE Software. 31 (2014), 4, 37-43. DOI 10.1109/MS.2014.26
- Humayon, Shah Rukh; **Hess, Steffen**; Ebert, Achim: Report from the Workshop on Prototyping to Support the Interaction Designing in Mobile Application Development (PID-MAD 2013). In: ACM SIGSOFT Software Engineering Notes. 39 (2014), 1, 28-30. DOI 10.1145/2557833.2557857
- Jedlitschka, Andreas**; Juristo, Natalia; **Rombach, H. Dieter**: Reporting experiments to satisfy professionals' information needs. In: Empirical Software Engineering. 19 (2014), 6, 1921-1955; First Published Online: 11 Aug 2013. DOI 10.1007/s10664-013-9268-6
- Hess, Steffen**; Collarana, Diego; **Doerr, Joerg**: Requirements Engineering und Konzeption von "Gamified" Apps. In: Softwaretechnik-Trends. 34 (2014), 1, 19-20.
- Liggesmeyer, Peter**: Smart - immer und überall : Editorial. In: digitale welt. (2014), 3, S. 3.
- Schubert, Christian; **Kläs, Michael**; Wagner, Stefan: Softwarequalität erfassen und vergleichen: Von der Messung bis zum abstrakten Qualitätsattribut. In: OBJEKTSpektrum. (2014), 01, 50-55.
- Bozzano, Marco; Cimatti, Alessandro; Katoen, Joost-Pieter; Katsaros, Panagiotis; Mokos, Konstantinos; **Nguyen, Viet Yen**; Noll, Thomas; Postma, Bart; Roveri, Marco: Spacecraft early design validation using formal methods. In: Reliability Engineering & System Safety. 132 (2014), 20-35. DOI 10.1016/j.res.2014.07.003
- Diebold, Philipp**; **Zehler, Thomas**: Top-Down vs. Bottom-Up. Agilität in regulierten Umgebungen. In: SQ Magazin. (2014), 32, 30-31.
- Adam, Sebastian**; **Riegel, Norman**; **Doerr, Joerg**: Tore. A Framework for Systematic Requirements Development in Information Systems. In: Requirements Engineering Magazine. (2014), 4.
- Liggesmeyer, Peter**: Die Vorstandsperspektive. Industrie 4.0. In: Informatik Spektrum. 37 (2014), 4, 284-285. - DOI 10.1007/s00287-014-0809-1
- Adam, Sebastian**; Wünc, Christian; **Koch, Matthias**: Wo stehen wir und wo wollen wir hin? Erfüllungsgrade von RE-Praktiken 2013. In: Softwaretechnik-Trends. 34 (2014), 1, 3-4.
- Doerr, Joerg**; Opdahl, Andreas L.: Working Conference Summary: REFSQ 2014 - the 19th International Working Conference on Requirements Engineering. Foundation for Software Quality. In: ACM SIGSOFT Software Engineering Notes. 39 (2014), 5, 22-25. - DOI 10.1145/2659118.2659137
- Liggesmeyer, Peter**: Deutschlands digitale Köpfe. In: Informatik Spektrum. 38 (2015), 1, S. 1. DOI 10.1007/s00287-014-0866-5

CONTRIBUTIONS TO CONFERENCE PROCEEDINGS

Humayoun, Shah Rukh; Rupprecht, Franca-Alexandra; **Hess, Steffen**; Ebert, Achim:

Adding Multi-Touch Gesture Interaction in Mobile Web Applications.

In: Kurosu, Masaaki (Ed.): Human-Computer Interaction. 16th International Conference, HCI International 2014 - Proceedings, Part II : Advanced Interaction Modalities and Techniques. Berlin : Springer-Verlag, 2014, 48-57. (Lecture Notes in Computer Science 8511). DOI 10.1007/978-3-319-07230-2_5

Diebold, Philipp; Dahlem, Marc:

Agile Practices in Practice. A Mapping Study.

In: Association for Computing Machinery (ACM): 18th International Conference on Evaluation and Assessment in Software Engineering, EASE 2014 - Proceedings. New York: ACM Press, 2014, Article No. 30, 10 S. DOI 10.1145/2601248.2601254

Jahic, Jasmin; Kuhn, Thomas:

Analysis of functional software dependencies through supervised execution.

In: IEEE Computer Society: 2014 IEEE International Symposium on Software Reliability Engineering Workshops. ISSREW - Proceedings. Los Alamitos: IEEE Computer Society, 2014, 128-129.

Riegel, Norman; Doerr, Joerg:

An Analysis of Priority-Based Decision Heuristics for Optimizing Elicitation Efficiency.

In: Salinesi, Camille (Ed.); Weerd, Inge van de (Ed.): Requirements Engineering: Foundation for Software Quality. 20th International Working Conference, REFSQ 2014 - Proceedings. Cham : Springer-Verlag, 2014, 268-284. (Lecture Notes in Computer Science 8396). DOI 10.1007/978-3-319-05843-6_20

Leite, Fabio; **Antonino, Pablo**; Barbosa, Paulo; **Kemmann, Sören**; Mendonca, Raphael:

Are the Current Architectural Practices Suitable for Safety Aspects of Medical Devices? An Exploratory Investigation.

In: IEEE Computer Society: 16th IEEE International Conference on e-Health Networking, Applications and Services. Healthcom 2014 - Proceedings. Los Alamitos: IEEE Computer Society, 2014, 477-482. DOI 10.1109/HealthCom.2014.7001889

Diebold, Philipp; Vetro, Antonio:

Bridging the Gap: SE Technology Transfer into Practice. Study Design and Preliminary Results.

In: Association for Computing Machinery (ACM): 8th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement. ESEM 2014 - Proceedings. New York: ACM Press, 2014, Article No. 52, 5 S. DOI 10.1145/2652524.2652552

Hellebrand, Robert; **Silva, Adeline de Sousa**; **Becker, Martin**; Sierszecki, Krzysztof; Savolainen, Juha Erik; Zhang, Bo:

Coevolution of Variability Models and Code: An Industrial Case Study.

In: Gnesi, Stefania (Ed.); Fantechi, Alessandro (Ed.); Heymans, Patrick (Ed.); Rubin, Julia (Ed.); Czarnecki, Krzysztof (Ed.); Dhungana, Deepak (Ed.); Association for Computing Machinery (ACM): 18th International Software Product Line Conference. SPLC 2014. Volume 1 - Proceedings. New York: ACM Press, 2014, 274-283. - DOI 10.1145/2648511.2648542

Elrakaiby, Yehia; Pang, Jun:

Dynamic Analysis of Usage Control Policies.

In: Obaidat, Mohammad S. (Ed.); Holzinger, Andreas (Ed.); Samarati, Pierangela (Ed.); Institute for Systems and Technologies of Information, Control and Communication: 11th International Conference on Security and Cryptography. SECURITY'2014 - Proceedings. SciTePress, 2014, 88-100.

Khan, Taimur; Humayoun, Shah Rukh; Amrhein, Karsten; **Barthel, Henning**;

Ebert, Achim; **Liggesmeyer, Peter**: eCITY+. A Tool to Analyze Software Architectural Relations through Interactive Visual Support.

In: Association for Computing Machinery (ACM): European Conference on Software Architecture Workshops and Tool Demos Track, ECSAW 2014 - Proceedings. New York: ACM Press, 2014, Article No. 36, 4 S. DOI 10.1145/2642803.2642839

Khan, Taimur; **Barthel, Henning**; Guzman, Liliana; Ebert, Achim; **Liggesmeyer, Peter**:

eCITY: Evolutionary Software Architecture Visualization - An Evaluation.

In: Ebert, Achim (Ed.); Veer, Gerrit C. van der (Ed.); Domik, Gitta (Ed.); Gershon, Nahum D. (Ed.); Scheler, Inga (Ed.): Building Brigades: HCI, Visualization, and Non-formal Modeling. IFIP WG 13.7 Workshops on Human-Computer Interaction and Visualization - Revised Selected Papers. Berlin: Springer-Verlag, 2014, 201-224. (Lecture Notes in Computer Science 8345). DOI 10.1007/978-3-642-54894-9_15

- Lampasona, Constanza; Diebold, Philipp; Eckhardt, Jonas; Schneider, Rolf:**
Evaluation in Practice: Artifact-based Requirements Engineering and Scenarios in Smart Mobility Domains.
In: Association for Computing Machinery (ACM): 8th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement. ESEM 2014 - Proceedings.
New York: ACM Press, 2014, Article No. 20, 8 S.
DOI 10.1145/2652524.2652582
- Herzner, Wolfgang; **Bauer, Thomas;** Sieverding, Sven; Kacimi, Omar; Böde, Eckard; Nielsen, Brian:
Expressing Best Practices in (Risk) Analysis and Testing of Safety-Critical Systems Using Patterns.
In: IEEE Computer Society: 2014 IEEE International Symposium on Software Reliability Engineering Workshops. ISSREW - Proceedings.
Los Alamitos: IEEE Computer Society, 2014, 299-304.
- Holl, Konstantin; Maier, Andreas; Klaus, Alexander:**
Funktionale Prüfung von Aspekten der Nutzerzufriedenheit.
In: Berns, Karsten (Ed.); Schindler, Christian (Ed.); Dreßler, K. (Ed.); Jörg, B. (Ed.); **Kalmar, Ralf (Ed.);** Zolynski, G. (Ed.): Proceedings of the 3rd Commercial Vehicle Technology Symposium. CVT'2014.
Aachen: Shaker, 2014, 406-415.
- Antonino, Pablo; Trapp, Mario:**
Improving Consistency Checks between Safety Concepts and View Based Architecture Design.
In: 12th International Probabilistic Safety Assessment and Management Conference. PSAM '12 - Proceedings. 2014, 12 S.
- Diebold, Philipp:**
Initial Data Triangulation of Agile Practices Usage. Comparing Mapping Study and Survey Results.
In: **Jedlitschka, Andreas (Ed.);** Kuvaja, Pasi (Ed.); Kuhrmann, Marco (Ed.); Männistö, T. (Ed.); Münch, Jürgen (Ed.); Raatikainen, Mikko (Ed.): 15th International Conference on Product-Focused Software Process Improvement. PROFES'2014 - Proceedings.
Cham: Springer-Verlag, 2014, 269-272. (Lecture Notes in Computer Science 8892).
DOI 10.1007/978-3-319-13835-0_19
- Elberzhager, Frank; Rosbach, Alla; Bauer, Thomas:**
An Integrated Analysis and Testing Methodology to Support Model-Based Quality Assurance.
In: Winkler, Dietmar (Ed.); Biffel, Stefan (Ed.); Bergsmann, Johannes (Ed.): Software Quality: Model-Based Approaches for Advanced Software and Systems Engineering. 6th International Conference, SWQD 2014 - Proceedings.
Cham: Springer-Verlag, 2014, 135-154. (Lecture Notes in Business Information Processing 166).
DOI 10.1007/978-3-319-03602-1_9
- Abukwaik, Hadil; Taibi, Davide; **Rombach, H. Dieter:**
Interoperability-Related Architectural Problems and Solutions in Information Systems. A Scoping Study.
In: Avgeriou, Paris (Ed.); Zdun, Uwe (Ed.): Software Architecture. 8th European Conference, ECSA 2014 - Proceedings.
Cham: Springer-Verlag, 2014, 308-323. (Lecture Notes in Computer Science 8627).
DOI 10.1007/978-3-319-09970-5_27
- Rapp, Daniel; **Hess, Anne;** Seyff, Norbert; Spörri, Peter; Fuchs, Emmerich; Glinz, Martin:
Lightweight Requirements Engineering Assessments in Software Projects.
In: IEEE Computer Society: 22nd IEEE International Requirements Engineering Conference. RE 2014 - Proceedings.
Los Alamitos: IEEE Computer Society, 2014, 354-363.
DOI 10.1109/RE.2014.6912286
- Knodel, Jens; Naab, Matthias:**
Mitigating the Risk of Software Change in Practice. Retrospective on More Than 50 Architecture Evaluations in Industry.
In: Demeyer, Serge (Ed.); Binkley, Dave (Ed.); Ricca, Filippo (Ed.): 2014 Software Evolution Week. IEEE Conference on Software Maintenance, Reengineering and Reverse Engineering (CSMR-WCRE) - Proceedings.
Los Alamitos: IEEE Computer Society, 2014, 2-17.
DOI 10.1109/CSMR-WCRE.2014.6747171
- Holl, Konstantin; Elberzhager, Frank:**
A Mobile-Specific Failure Classification and Its Usage to Focus Quality Assurance.
In: Rabiser, Rick (Ed.); Torkar, Richard (Ed.): 40th Euromicro Conference Series on Software Engineering and Advanced Applications. SEAA' 2014 - Proceedings.
Los Alamitos: IEEE Computer Society, 2014, 385-388.
DOI 10.1109/SEAA.2014.19
- Antonino, Pablo; Keuler, Thorsten;** Germann, Nicolas; Cronauer, Brian:
A Non-Invasive Approach to Trace Architecture Design, Requirements Specification, and Agile Artifacts.
In: 23rd Australian Software Engineering Conference. ASWEC 2014 - Proceedings.
Los Alamitos: IEEE Computer Society, 2014, 220-229.
DOI 10.1109/ASWEC.2014.30

Elberzhager, Frank; Bauer, Thomas: Optimizing Quality Assurance Strategies through an Integrated Quality Assurance Approach. Guiding Quality Assurance with Assumptions and Selection Rules. In: Rabiser, Rick (Ed.); Torkar, Richard (Ed.): 40th Euromicro Conference Series on Software Engineering and Advanced Applications. SEAA' 2014 - Proceedings. Los Alamitos: IEEE Computer Society, 2014, 402-405. DOI 10.1109/SEAA.2014.12

Humayoun, Shah Rukh; **Hess, Steffen**; Ebert, Achim; Dubinsky, Yael: PID-MAD 2014: Second International Workshop on Prototyping to Support the Interaction Designing in Mobile Application Development. In: Association for Computing Machinery (ACM): 16th International Conference on Human-Computer Interaction with Mobile Devices and Services. MobileHCI '14 - Proceedings. New York: ACM Press, 2014, 573-576. DOI 10.1145/2628363.2634256

Diebold, Philipp; Lampasona, Costanza; Zverlov, Sergey; Voss, Sebastian: Practitioners' and Researchers' Expectations on Design Space Exploration for Multicore Systems in the Automotive and Avionics Domains - A Survey. In: Association for Computing Machinery (ACM): 18th International Conference on Evaluation and Assessment in Software Engineering, EASE 2014 - Proceedings. New York: ACM Press, 2014, Article No. 1, 9 S. DOI 10.1145/2601248.2601250

Diebold, Philipp; Dieudonné, Laurent; Taibi, Davide: Process Configuration Framework Tool. In: Rabiser, Rick (Ed.); Torkar, Richard (Ed.): 40th Euromicro Conference Series on Software Engineering and Advanced Applications. SEAA' 2014 - Proceedings.

Los Alamitos: IEEE Computer Society, 2014, 389-390. DOI 10.1109/SEAA.2014.28

Breiner, Kai; Jung, Jessica; Hess, Steffen: Relations between Cognitive Load and user Experience. Measuring via Eye-Tracker. In: Berns, Karsten (Ed.); Schindler, Christian (Ed.); Dreßler, K. (Ed.); Jörg, B. (Ed.); **Kalmar, Ralf (Ed.)**; Zolynski, G. (Ed.): Proceedings of the 3rd Commercial Vehicle Technology Symposium. CVT'2014. Aachen: Shaker, 2014, 396-405.

Zhang, Bo; Becker, Martin: Reverse Engineering Complex Feature Correlations for Product Line Configuration Improvement. In: Rabiser, Rick (Ed.); Torkar, Richard (Ed.): 40th Euromicro Conference Series on Software Engineering and Advanced Applications. SEAA' 2014 - Proceedings. Los Alamitos: IEEE Computer Society, 2014, 320-327. DOI 10.1109/SEAA.2014.34

Bohlender, Dimitri; Brintjes, Harold; Junges, Sebastian; Katelaan, Jens; **Nguyen, Viet Yen**; Noll, Thomas: A Review of Statistical Model Checking Pitfalls on Real-Time Stochastic Models. In: Margaria, Tiziana (Ed.); Steffen, Bernhard (Ed.): Leveraging Applications of Formal Methods, Verification and Validation. Specialized Techniques and Applications. 6th International Symposium, ISoLA 2014 - Proceedings Part II. Berlin: Springer-Verlag, 2014, 177-192. (Lecture Notes in Computer Science 8803). DOI 10.1007/978-3-662-45231-8_13

Rudolph, Manuel; Schwarz, Reinhard; Jung, Christian: Security Policy Specification Templates for Critical Infrastructure Services in the Cloud.

In: 9th International Conference for Internet Technology and Secured Transactions ICITST-2014 - Proceedings. Los Alamitos: IEEE Computer Society, 2014, 61-66. DOI 10.1109/ICITST.2014.7038776

Knodel, Jens; Naab, Matthias: Software Architecture Evaluation in Practice. Retrospective on more than 50 Architecture Evaluations in Industry. In: 11th Working IEEE/IFIP Conference on Software Architecture, WICSA 2014 - Proceedings. Los Alamitos: IEEE Computer Society, 2014, 115-124. DOI 10.1109/WICSA.2014.37

Guzman, Liliana; Lampasona, Costanza; Seaman, Carolyn B.; **Rombach, H. Dieter**: Survey on Research Synthesis in Software Engineering. In: Association for Computing Machinery (ACM): 18th International Conference on Evaluation and Assessment in Software Engineering, EASE 2014 - Proceedings. New York: ACM Press, 2014, Article No. 2, 10 S. DOI 10.1145/2601248.2601273

Villela, Karina; Silva, Adeline de Sousa; Vale, Tassio; Almeida, Eduardo Santana: A Survey on Software Variability Management Approaches. In: Gnesi, Stefania (Ed.); Fantechi, Alessandro (Ed.); Heymans, Patrick (Ed.); Rubin, Julia (Ed.); Czarnecki, Krzysztof (Ed.); Dhungana, Deepak (Ed.); Association for Computing Machinery (ACM): 18th International Software Product Line Conference. SPLC 2014. Volume 1 - Proceedings. New York: ACM Press, 2014, 147-156. DOI 10.1145/2648511.2648527

Weitzel, Balthasar; Rost, Dominik; Scheffe, Mathias:
Sustaining Agility through Architecture. Experiences from a Joint Research and Development Laboratory.
In: 11th Working IEEE/IFIP Conference on Software Architecture, WICSA 2014 - Proceedings.
Los Alamitos: IEEE Computer Society, 2014, 53-56.
DOI 10.1109/WICSA.2014.38

Zimmer, Bastian; Drogmann, Christoph; Hänger, Jochen Ulrich:
A Systematic Approach for Software Interference Analysis.
In: IEEE Computer Society: 25th IEEE International Symposium on Software Reliability Engineering. ISSRE'2014 - Proceedings.
Los Alamitos: IEEE Computer Society, 2014, 78-87.

Adler, Rasmus; Kemmann, Sören:
Towards safe autonomous driving. Enhancing traditional hazard and risk analysis.
In: Berns, Karsten (Ed.); Schindler, Christian (Ed.); Dreßler, K. (Ed.); Jörg, B. (Ed.); Kalmar, Ralf (Ed.); Zolynski, G. (Ed.): Proceedings of the 3rd Commercial Vehicle Technology Symposium. CVT'2014.
Aachen: Shaker, 2014, 3-12.

Schneider, Daniel; Armengaud, Eric; Schoitsch, Erwin:
Towards Trust Assurance and Certification in Cyber-Physical Systems.
In: Bondavalli, Andrea (Ed.); Ceccarelli, Andrea (Ed.); Ortmeier, Frank (Ed.): Computer Safety, Reliability, and Security. SAFECOMP 2014 Workshops: ASCoMS, DECSoS, DEVVARTS, ISSE, ReSA4CI, SASSUR - Proceedings.
Cham: Springer-Verlag, 2014, 180-191. (Lecture Notes in Computer Science 8696).
DOI 10.1007/978-3-319-10557-4_21

Zhang, Bo; Becker, Martin:
Variability Code Analysis Using the VITAL Tool.
In: Berger, Thorsten (Ed.); Ribeiro, Márcio (Ed.): Proceedings of the 6th International Workshop on Feature-Oriented Development (FOSD'14).
New York: ACM Press, 2014, 17-22.
DOI 10.1145/2660190.2662113

Maier, Andreas; Hess, Steffen:
We Need Non-formal Methods Based on Formal Models in Interaction Design.
In: Ebert, Achim (Ed.); Veer, Gerrit C. van der (Ed.); Domik, Gitta (Ed.); Gershon, Nahum D. (Ed.); Scheler, Inga (Ed.): Building Brigdes: HCI, Visualization, and Non-formal Modeling. IFIP WG 13.7 Workshops on Human-Computer Interaction and Visualization - Revised Selected Papers.
Berlin: Springer-Verlag, 2014, 150-164. (Lecture Notes in Computer Science 8345).
DOI 10.1007/978-3-642-54894-9_11

Nguyen, Viet Yen; Bittner, Benjamin; Katoen, Joost-Pieter; Noll, Thomas:
Compositional Analysis Using Component-Oriented Interpolation.
In: Lanese, Ivan (Ed.); Madelaine, Eric (Ed.): Formal Aspects of Component Software. 11th International Symposium, FACS 2014 - Revised Selected Papers.
Cham: Springer-Verlag, 2015, 68-85. (Lecture Notes in Computer Science 8997).
DOI 10.1007/978-3-319-15317-9_5

PROCEEDINGS BY EDITORS

Berns, Karsten (Ed.); Schindler, Christian (Ed.); Dreßler, K. (Ed.); Jörg, B. (Ed.); **Kalmar, Ralf (Ed.);** Zolynski, G. (Ed.):
Proceedings of the 3rd Commercial Vehicle Technology Symposium. CVT'2014.
Aachen: Shaker, 2014.
ISBN 978-3-8440-2573-6

Jedlitschka, Andreas (Ed.); Kuvaja, Pasi (Ed.); Kuhrmann, Marco (Ed.); Männistö, T. (Ed.); Münch, Jürgen (Ed.); Raatikainen, Mikko (Ed.):
15th International Conference on Product-Focused Software Process Improvement. PROFES'2014 - Proceedings.
Cham: Springer-Verlag, 2014. (Lecture Notes in Computer Science; 8892).
ISBN 978-3-319-13834-3
DOI 10.1007/978-3-319-13835-0
ISSN 0302-9743

Bauer, Thomas (Ed.); Großmann, Jürgen (Ed.); Seehusen, Fredrik (Ed.); Stølen, Ketil (Ed.); Wendland, Marc-Florian (Ed.):
Risk Assessment and Risk-Driven Testing. First International Workshop, RISK 2013. Held in Conjunction with ICTSS 2013 - Revised Selected Papers.
Cham: Springer-Verlag, 2014. (Lecture Notes in Computer Science; 8418).
ISBN 978-3-319-07075-9
ISSN 0302-9743
DOI 10.1007/978-3-319-07076-6

FRAUNHOFER IESE REPORTS

Krogmann, Klaus; **Naab, Matthias**; Hummel, Oliver: Agile Anti-Patterns. Warum viele Organisationen weniger agil sind als sie denken. Kaiserslautern, 2014. (IESE-Report; 027.14/D)

Diebold, Philipp; Dahlem, Marc: Agile Practices in Practice. A Mapping Study. Kaiserslautern, 2014. (IESE-Report; 022.14/E)

Weitzel, Balthasar; Naab, Matthias; Scheffe, Mathias: Agilität braucht Architektur!. Kaiserslautern, 2014. (IESE-Report; 055.14/D)

Riegel, Norman; Doerr, Joerg: An Analysis of Priority-based Decision Heuristics for Optimizing Elicitation Efficiency. Kaiserslautern, 2014. (IESE-Report; 010.14/E)

Elberzhager, Frank; Münch, Jürgen; Assmann, Danilo: Analyzing the Relationships between Inspections and Testing to Provide a Software Testing Focus. Kaiserslautern, 2014. (IESE-Report; 024.14/E)

Herrmann, Andrea; Houdek, Frank; **Doerr, Joerg**; Knauss, Eric; Schneider, Kurt: Bericht vom Treffen der Fachgruppe 2.1.6. "Requirements Engineering" am 28./29.11.2013 in Ilmenau. Kaiserslautern, 2014. (IESE-Report; 015.14/D)

Doerr, Joerg; Eisenbarth, Michael: Datenkontrolle der Zukunft: Sicherheitsrichtlinien über Systemgrenzen hinweg eigenverantwortlich durchsetzen können. Kaiserslautern, 2014. (IESE-Report; 014.14/D)

Maier, Andreas: A Dialectic Approach for User Requirements Engineering for Multi-User Systems. Research Abstract of my Ph.D. Proposal. Kaiserslautern, 2014. (IESE-Report; 020.14/E)

Jung, Christian; Eitel, Andreas; Schwarz, Reinhard: Enhancing Cloud Security with Context-aware Usage Control Policies. Kaiserslautern, 2014. (IESE-Report; 046.14/E)

Weitzel, Balthasar; Scheffe, Mathias: Erosion von Agilität mit Epic Architekturen erfolgreich bekämpfen. Kaiserslautern, 2014. (IESE-Report; 057.14/D)

Fang, Miao; Leyh, Georg; Elsner, Christoph; **Doerr, Joerg**: Experiences During Extraction of Variability Models for Warehouse Management Systems. Kaiserslautern, 2014. (IESE-Report; 013.14/E)

Holl, Konstantin; Maier, Andreas; Klaus, Alexander: Funktionale Prüfung von Aspekten der Nutzerzufriedenheit. Kaiserslautern, 2014. (IESE-Report; 008.14/D)

Darting, Simon: Konzeption und Durchführung einer automatisierten Farbdokumentation sensorischer Produktanalysen. Kaiserslautern, 2014. (IESE-Report; 003.14/D). (Zugl.: Worms, FH, Bachelorarbeit, 2011)

Holl, Konstantin; Elberzhager, Frank: A Mobile-specific Failure Classification and its Usage to Focus Quality Assurance. Kaiserslautern, 2014. (IESE-Report; 036.14/E)

Neisse, Ricardo; **Doerr, Joerg**: Model-Based Specification and Refinement of Usage Control Policies. Kaiserslautern, 2014. (IESE-Report; 012.14/E)

Elberzhager, Frank; Bauer, Thomas: Optimizing Quality Assurance Strategies through an Integrated Quality Assurance Approach. Guiding Quality Assurance with Assumptions and Selection Rules. Kaiserslautern, 2014. (IESE-Report; 023.14/E)

Diebold, Philipp; Lampasona, Constanza; Zverlov, Sergey; Voss, Sebastian: Practitioners' and Researchers' Expectations on Design Space Exploration for Multi-core Systems in the Automotive and Avionics Domains - A Survey. Kaiserslautern, 2014. (IESE-Report; 021.14/E)

Riegel, Norman: Prioritization Criteria Collection and Literature Sources. Kaiserslautern, 2014. (IESE-Report; 048.14/E)

Zhang, Bo; Becker, Martin: Reverse Engineering Complex Feature Correlations for Product Line Configuration Improvement. Kaiserslautern, 2014. (IESE-Report; 059.14/E)

Rost, Dominik; Naab, Matthias; Lima, Crescencio; Flach Chavez, Christina von: Software Architecture Documentation for Developers: A Survey. Kaiserslautern, 2014. (IESE-Report; 025.14/E)

Knodel, Jens; Naab, Matthias: Software Architecture Evaluation in Practice. Retrospective on more than 50 Architecture Evaluations in Industry. Kaiserslautern, 2014. (IESE-Report; 009.14/E)

Heuer, André; **Diebold, Philipp**; Bandyszak, Torsten: Supporting Technology Transfer by Providing Recommendations for Writing Structured Guidelines. Kaiserslautern, 2014. (IESE-Report; 005.14/E)

Weitzel, Balthasar; Rost, Dominik; Scheffe, Mathias: Sustaining Agility through Architecture. Experiences from a Joint Research and Development Laboratory. Kaiserslautern, 2014. (IESE-Report; 056.14/E)

Doerr, Joerg:

Towards Acceptance of Socio-technical Systems - An Emphasis on the Requirements Phase.

Kaiserslautern, 2014.
(IESE-Report; 011.14/E)

Zhang, Bo; Becker, Martin:

Variability Code Analysis Using the VITAL Tool.

Kaiserslautern, 2014.
(IESE-Report; 058.14/E)

Zhang, Bo; Becker, Martin:

Variability Realization Improvement of Software Product Lines.

Kaiserslautern, 2014.
(IESE-Report; 060.14/E)

Arif, Taslim; Gomes, Mateus; Knodel, Jens:

Virtual Tractor Open Architecture - Design and Implementation of an Open System.

Kaiserslautern, 2014.
(IESE-Report; 032.14/E)

DOCTORAL THESES**Schneider, Daniel:**

Conditional Safety Certification for Open Adaptive Systems.

Stuttgart: Fraunhofer Verlag, 2014. (PhD Theses in Experimental Software Engineering; Vol. 48). (Zugl.: Kaiserslautern, Techn. Univ., Diss., 2014). ISBN 978-3-8396-0690-2

Zimmer, Bastian:

Efficiently Deploying Safety-Critical Applications onto Open Integrated Architectures.

Stuttgart: Fraunhofer Verlag, 2014. (PhD Theses in Experimental Software Engineering; Vol. 50). (Zugl.: Kaiserslautern, Techn. Univ., Diss., 2014). ISBN 978-3-8396-0753-4

Anastasopoulos, Michalis: Evolution Control for Software Product Lines. An Automation Layer over Configuration Management.

Stuttgart : Fraunhofer Verlag, 2014. (PhD Theses in Experimental Software Engineering; Vol. 49). (Zugl.: Kaiserslautern, Techn. Univ., Diss., 2013). ISBN 978-3-8396-0702-2

MASTER'S THESES**Koch, Matthias; Rombach, H. Dieter (Supervisor); Adam, Sebastian (Supervisor):**

An Approach for Technology Potential Analysis in Organizations.

Kaiserslautern, 2014. (Kaiserslautern, Techn. Univ., Masterarbeit, 2014).

Flat, Waldemar; Knauber, Peter (Supervisor); Knodel, Jens (Supervisor):

Architecture-based Simulation of Quality Attributes in the Context of Software Ecosystems.

Mannheim, 2014.
(Mannheim, Hochschule, Masterarbeit, 2014).

Pellowski, Milosz; Bomarius, Frank (Supervisor); Jahic, Jasmin (Supervisor); Rossi, Drausio Linardi (Supervisor):

Development of an Application for Autonomous Outdoor Navigation Using ROS.

Kaiserslautern, 2014. (Kaiserslautern, FH, Masterarbeit, 2014).

Werner, Tuzar Edwin; Rombach, H. Dieter (Supervisor); Knodel, Jens (Supervisor):

Live Monitoring of Software Ecosystems.

Kaiserslautern, 2014. (Kaiserslautern, Techn. Univ., Masterarbeit, 2014).

Opp, Axel; Diehl, Norbert (Supervisor); Simon, Kai (Supervisor):

Schwachstellenanalyse mittels klassischer Internet-Suchmaschinen.

Kaiserslautern, 2014. (Kaiserslautern, FH, Masterarbeit, 2014).

Feth, Patrik; Liggesmeyer, Peter (Supervisor); Bauer, Thomas (Supervisor):

Virtual Validation of Automotive Software Intensive Systems.

Kaiserslautern, 2014. (Kaiserslautern, Techn. Univ., Masterarbeit, 2014).

AWARDS

INTERNAL AWARDS

Michael Deynet
The Fraunhofer IESE Award
2014 for Project Excellence

Denis Feth
The Fraunhofer IESE Award
2014 for Project Excellence

Christian Jung
The Fraunhofer IESE Award
2014 for Project Excellence

Cornelius Moucha
The Fraunhofer IESE Award
2014 for Project Excellence

Manuel Rudolph
The Fraunhofer IESE Award
2014 for Project Excellence

Sebastian Adam
The Fraunhofer IESE Award
2014 for Empirical Excellence

Norman Riegel
The Fraunhofer IESE Award
2014 for Empirical Excellence

Daniel Schneider
The Fraunhofer IESE Award
2014 for Doctoral Thesis
Excellence

Patrik Feth
The Fraunhofer IESE Award
2014 for Master Thesis
Excellence

Jan Reich
The Fraunhofer IESE Award
2014 for Bachelor Thesis
Excellence

Annalena Billenstein
The Fraunhofer IESE Award
2014 for Excellence in
Apprenticeship

Birgit Buck
The Fraunhofer IESE Award
2014 for Infrastructure Excel-
lence

Ilona Würtz
The Fraunhofer IESE Award
2014 for Infrastructure Excel-
lence

Dennis Müller
The Fraunhofer IESE Award
2014 for Infrastructure Excel-
lence

Simone Rockenmeyer
The Fraunhofer IESE Award
2014 for Infrastructure Excel-
lence

EXTERNAL AWARDS

Usage Control Team
EARTO Innovation Prize,
European Association of
Research and Technology
Organisations
Brussels, Belgium
October 15, 2014

Rombach, Dieter
Dr. Johann Christian Eberle
Medaille, Sparkassenverband
Rheinland-Pfalz
Kaiserslautern
September 2014

Rombach, Dieter
CSM Recognitive Pioneer
Honour, CSME
Victoria, Canada
October 1, 2014

Rudolph, Manuel
Best PhD-Paper Award,
Doctoral Symposium,
1st International Conference
on Information Systems Secu-
rity and Privacy (ICISSP 2015),
Institute for Systems and
Technologies of Information,
Control and Communication
(INSTICC)
Angers, France
February 9 - 11, 2015

Steinbach, Silke:
TELEMED Award 2014, TELE-
MED GbR in Kooperation mit
der Deutschen Gesellschaft
für Medizinische Informatik,
Biometrie und Epidemiologie
e.V. (GMDS) und der DGMR
– Deutsche Gesellschaft für
Medizinrecht e.V. im Rahmen
des 19. Nationalen Forum für
Gesundheitstelematik und
Telemedizin
Berlin
October 15, 2014

