

ANNUAL REPORT 2016/2017

APPENDIX NAMES, FACTS, EVENTS



Digital Transformation in Balance



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NETWORK IN SCIENCE AND INDUSTRY

INDUSTRIAL PARTNERS¹

- a 3 systems GmbH, Zweibrücken
- ABB AG, Ladenburg
- AbsInt Angewandte Informatik GmbH, Saarbrücken
- Accemic GmbH & Co.KG, Kiefersfelden
- accessec GmbH, Groß-Bieberau
- Adidas AG, Herzogenaurach
- ads-tec GmbH, Nürtingen
- Agentur Barth Marketing, Kommunikation und Design GmbH, Kaiserslautern
- Agile Point EMEA BVBA, Oudenaarde
- agma data GmbH, Nikolausdorf
- AICAS GmbH, Karlsruhe
- Airbus Defence and Space GmbH, Ulm
- Airbus DS Electronics and Border Security GmbH, Ulm
- Airbus Group Innovations, Ottobrunn
- Ansaldo Sts, Genova, Italy
- Appian Software GmbH, Mainz
- ASA Quality Academy OÜ, Tallinn, Estonia
- Atos IT Solution and Services GmbH, Berlin
- 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
- beam AG, Cologne
- Becker Mining Europe GmbH, Marl
- BITTIUM WIRELESS OY, Oulu
- Bizagi, Chalfont St. Peter, United Kingdom
- Bluecarat AG, Cologne
- BMW AG, Munich
- BMW Group Forschung und Technik GmbH, Munich
- Bomag GmbH, Boppard
- Bosch Software Innovations GmbH, Stuttgart
- camLine GmbH, Petershausen
- Capgemini sd&m AG, Munich
- Carl Zeiss Microscopy GmbH, Jena
- CAS Software AG, Karlsruhe
- CAST GmbH, Munich
- Centigrade GmbH, Saarbrücken
- Cisco Systems GmbH, Stuttgart
- CONET Solutions GmbH, Hennef
- Continental Automotive GmbH, Hanover
- CosmosDirekt, Saarbrücken
- CSL Behring, Marburg
- Daimler AG, Ulm
- DAS - Daten- und Systemtechnik, Aachen
- DATEV eG, Nuremberg
- DENSO AUTOMOTIVE Deutschland GmbH, Eching
- Deutsche Post DHL, Troisdorf-Spich
- Diehl Aerospace GmbH, Überlingen
- Duravit AG, Schenkenzell
- EADS Deutschland GmbH, Munich
- Elektrobit Automotive GmbH, Erlangen
- ESCRYPT GmbH - Embedded Security, Bochum
- ETAS Entwicklungs- und Applikationswerkzeuge für elektronische Systeme GmbH, Stuttgart
- eVision Systems GmbH, Forstinning
- evosoft GmbH, Bamberg
- Festo AG & Co.KG, Esslingen
- Finanz Informatik GmbH & Co.KG, Hanover
- FireServ e.U., Linz
- FIRU mbH, Kaiserslautern
- FKA Forschungsgesellschaft Kraftfahrwesen mbH, Aachen
- Ford Forschungszentrum Aachen GmbH, Aachen
- ForTISS GmbH, Garching
- Fujitsu Enabling Software Technology GmbH, Munich
- FUJITSU Laboratories of Europe Ltd., Hayes, UK
- Gemeinsame Klassenlotterie der Länder (GKL), Munich
- GE Global Research, Garching
- HEAG Südthessische Energie AG, Darmstadt
- Heidelberg mobil international GmbH, Walldorf
- Hella KGaA Hueck & Co, Lippstadt
- Hirschmann Automation and Control GmbH, Ettlingen
- HK Business Solution GmbH, Sulzbach
- HOMAG Holzbearbeitungssysteme GmbH, Schopfloch
- Huawei Technologies Sweden AB, Kista, Sweden
- HUK-COBURG, Coburg
- ICT Solutions AG, Trier
- igr AG, Rockenhausen
- IHK Zetis GmbH, Kaiserslautern
- Infineon Technologies Austria AG, Villach, Austria
- Infineon Technologies AG, Neubiberg
- Insiders GmbH, Kaiserslautern
- Intel GmbH, Feldkirchen
- ITTI SP ZOO, Poznan, Poland
- ITQ GmbH, Munich
- John Deere European Technology Innovation Center, Kaiserslautern
- John Deere Moline Technology Innovation Center, Moline, USA
- Joseph-Vögele GmbH, Ludwigshafen
- Kemweb GmbH & Co.KG, Mainz
- Knorr-Bremse, Schwieberdingen
- KSB AG, Frankenthal

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

- KUKA Roboter GmbH, Augsburg
 - Liebherr-Aerospace, Lindenberg
 - Liebherr-Hydraulikbagger GmbH, Kirchdorf/Bischofs-hofen
 - Lotterrie-Treuhandge-sellschaft mbH Hessen, Wiesbaden
 - LuK GmbH & Co. KG, Bühl
 - m2Xpert GmbH & Co KG, Bielefeld
 - Mining Research & Devel-oppement SAS, Saverne, France
 - Mittelrheinische Treuhand GmbH, Koblenz
 - Murex S.A.S., Paris, France
 - Murrelektronik GmbH, Oppenweiler
 - Nobilia-Werke J. Stickling GmbH & Co. KG, Verl
 - Nokia Solutiouns and Net-works OY, Espoo, Finland
 - NXP Semiconductors Germany GmbH, Hamburg
 - OpenSynergy GmbH, Berlin
 - OrgaTech Unternehm-ensberatung, Lünen
 - OSSENO Software GmbH, Kaiserslautern
 - Philips Medical Systems Nederland B.V., Eind-hoven, The Netherlands
 - Phoenix Contact Electron-ics GmbH, Bad Pyrmont
 - Porsche Engineering Group GmbH, Weissach
 - proALPHA Software AG, Weilerbach
 - PSI Automotive & Industry GmbH, Berlin
 - QA Systems GmbH, Stuttgart
 - Qaware GmbH, Munich
 - R&D-Ware Oy, Espoo, Finland
 - Robert-Bosch GmbH, Schwieberdingen
 - Roche Diagnostics GmbH, Mannheim
 - SAP AG, Walldorf
 - Scheer Group GmbH, Saarbrücken
 - Siemens AG, Munich
 - Siemens Financial Services GmbH, Munich
 - SILEXICA SOFTWARE SO-LUTIONS GMBH, Aachen
 - SMS-Siemag AG, Hilchen-bach
 - SOFTEAM, Paris, France
 - SoftProject GmbH, Ett-lingen
 - Software - Diagnostics Technology GmbH, Pots-dam
 - Software AG, Darmstadt
 - SSI Schäfer Noell GmbH, Dortmund
 - Stadtwerke Kaiserslautern Versorgungs-AG, Kaisers-lautern
 - STILL GmbH, Hamburg
 - StoREgio GmbH, Mannheim
 - Symphony Teleca GmbH, Bochum
 - Symtavigation GmbH, Braun-schweig
 - Sysgo AG, Klein-Wintern-heim
 - TAFE Tractors and Farm Equipment Limited, Chennai, India
 - TecAlliance, Munich
 - Testo AG, Lenzkirch
 - THALES, Neuilly sur Seine, France
 - Timing-Architects Em-bedded Systems GmbH, Regensburg
 - TriCAT GmbH, Ulm
 - TQSoft GmbH, Bad Kreuznach
 - TRUMPF Werkzeugmas-chinen GmbH, Ditzingen
 - TRW Automotive Electron-ics & Components GmbH, Radolfzell
 - Vector Informatik GmbH, Stuttgart
 - Volkswagen Aktiengesell-schaft, Wolfsburg
 - Volvo Technology Corpora-tion, Gothenburg, Sweden
 - VOMATEC International GmbH, Bad Kreuznach
 - WDR Westdeutscher Rundfunk, Cologne
 - WIBU-SYSTEMS AG, Karlsruhe
 - Wind River GmbH, Ismaning
 - Wittenstein AG, Igersheim
 - WWK Lebensversicherung AG, München
 - Yatta Solutions GmbH, Kassel
 - YellowMab AG, Karlsruhe
 - ZF Friedrichshafen AG, Friedrichshafen
- NATIONAL RESEARCH PARTNERS**
- Albert-Ludwigs-Universität Freiburg (University of Freiburg), Freiburg
 - Akademie für Notfall-medizin, Gemeinnützige Ambulanz- und Rettungs-dienst GmbH, Hamburg
 - Bertelsmann Stiftung, Gütersloh
 - Berufsbildungswerk Gemeinnützige Bildungseinrichtung des DGB mbH (Vocational Training Or-ganization of the German Confederation of Trade Unions), Erkrath
 - CyberForum e.V., Karls-ruhe
 - DESY Deutsches Elektro-nen Synchrotron, Ham-burg
 - Deutsches Forschungszen-trum für Künstliche Intelli-genz (German Center for Artificial Intelligence (DFKI)), Kaiserslautern
 - Deutsches Forschungs-zentrum für Künstliche Intelligenz (German Center for Artificial Intelligence (DFKI)), Saarbrücken
 - Deutsches Institut für an-gewandte Pflegeforschung e.V. (German Institute of Applied Nursing Research), Cologne
 - Deutsche Stiftung für chronisch Kranke (German Foundation for the Chroni-cally Ill), Fürth
 - Deutsches Zentrum für Luft- und Raumfahrt e.V. (German Aerospace Cen-ter), Cologne

- Fachgebiet Mensch-Maschine-Systeme (Chair of Human-Machine Systems), TU Berlin
 - Gesellschaft zur Förderung der Angewandten Informationsforschung e.V. (Society for the Promotion of Applied Information Sciences), Saarbrücken
 - Hasso-Plattner-Institut, Potsdam
 - Hochschule Darmstadt (Darmstadt University of Applied Sciences), Darmstadt
 - Hochschule Heilbronn (Heilbronn University), Heilbronn
 - House of IT e.V., Darmstadt
 - Institut für Arbeit und Technik (Institute for Work and Technology), Gelsenkirchen
 - Institut für Informatik (Department of Computer Science), Christian-Albrechts-Universität zu Kiel, Kiel
 - Institut für Informatik IV, Technische Universität München (Institute for Computer Science, TU München), Munich
 - Institut für Visual Computing, Hochschule Bonn-Rhein-Sieg (Bonn-Rhein-Sieg University of Applied Sciences), Sankt Augustin
 - KIT Karlsruher Institut für Technologie (Karlsruhe Institute of Technology), Karlsruhe
 - Lehrstuhl für Prozessleittechnik (Chair of Process Control Engineering), RWTH Aachen University, Aachen
 - Lehrstuhl für Sicherheit in der Informationstechnik, Technische Universität München (Chair of Security in Information Technology, TU München), Munich
 - Lehrstuhl für Software Systeme, Universität Duisburg-Essen (Institute for Computer Science and Information Systems, University of Duisburg-Essen), Essen
 - Malteser Hilfsdienst, Cologne
 - Marienhaus Klinikum Eifel Bitburg, Potsdam
 - 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 Dortmund (TU Dortmund University), Dortmund
 - Technische Universität Kaiserslautern (University of Kaiserslautern), Kaiserslautern
 - Technologie-Initiative SmartFactory KL e.V., Kaiserslautern
 - THD - Technische Hochschule Deggendorf (Deggendorf Institute of Technology), Deggendorf
 - Universität Kassel (University of Kassel), Kassel
 - Universität des Saarlandes (Saarland University), Saarbrücken
 - Universität Trier (Trier University), Trier
 - Westpfalz-Klinikum GmbH, Kaiserslautern
 - Zentrum für Mensch-Maschine-Systeme (Centre of Human-Machine Systems), Technische Universität Berlin
- INTERNATIONAL RESEARCH PARTNERS**
- Aalborg University, Aalborg, Denmark
 - AIT Austrian Institute of Technology GmbH, Vienna, Austria
 - Caisse Nationale de Santé, Luxembourg, Luxembourg
 - Chalmers Tekniska Högskola Aktiebolag, Gothenburg, 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, Athens, 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 Informatica, Valencia, Spain
 - International Security and Counterterrorism Academy, Rishon Letzion, Israel
 - Japan Aerospace Exploration Agency JAXA, Tokyo, Japan
 - Koninklijke Marechaussee, The Hague, The Netherlands

- Korps Landelijke Politiediensten, The Hague, The Netherlands
 - KTH Royal Institute of Technology, Stockholm, Sweden
 - Luleå University of Technology, Luleå, Sweden
 - Mondragon Goi Eskola Politeknikoa S. Coop, Arrasate edo Mondragón, Spain
 - National ICT Australia (NICTA), Australian Technology Park, Eveleigh, Australia
 - OULUN YLIOPISTO, Oulu, Finland
 - Peace Research Institute Oslo, Oslo, Norway
 - Politecnico di Torino, Torino, Italy
 - POLITIE Landelijke eenheid Staf, Utrecht, The Netherlands
 - Politechnical University of Madrid (UPM), Madrid
 - Poznań University of Technology, Poznań, Poland
 - Riga Technical University, Riga, Latvia
 - SENAI, Salvador da Bahia, Brazil
 - SIMULA Research Laboratory, Lysaker, Norway
 - Delft University of Technology, Delft, The Netherlands
 - TU/e Eindhoven University of Technology, Eindhoven, The Netherlands
 - Technische Universität Graz (Graz University of Technology), Graz, Austria
 - Technische Universität Wien (Vienna University of Technology), Vienna, Austria
 - TNO, Delft, The Netherlands
 - UNINOVA – Instituto de Desenvolvimento de Novas Tecnologias, Lisboa, Portugal
 - Universidade Estadual da Paraíba, Campina Grande, Brazil
 - Universidade Federal da Bahia, Salvador, Brazil
 - Universitat Politècnica de Catalunya, Barcelona, Spain
 - Universidad Politécnica de Madrid, Madrid, Spain
 - Universidad Politécnica de Valencia, Valencia, Spain
 - Universitetet I Oslo, Oslo, Norway
 - University of Applied Sciences and Arts Northwestern Switzerland
 - University of Zurich, Zurich, Switzerland
 - University of Manchester, Manchester, United Kingdom
 - University of Bristol, Bristol, United Kingdom
 - VTT Electronics, Oulu, Finland
- INTERNATIONAL SOFTWARE ENGINEERING NETWORK (ISERN)**
- Aalto University School of Science and Technology (TKK), Finland
 - Blekinge Institute of Technology (BTH), Sweden
 - Carnegie Mellon University, Silicon Valley, USA
 - Chalmers University of Technology, Sweden
 - COPPE/Rio de Janeiro Federal University, Brazil
 - Fluminense Federal University - Institute of Computing, 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), China
 - IT University of Copenhagen, Denmark
 - Lund University, Sweden
 - Microsoft Research, USA
 - Montana State University, USA
 - Nanjing University, China
 - Nara Institute of Science and Technology, Japan
 - North Carolina State University, USA
 - Norwegian University of Science and Technology, Norway
 - NTT Data Corporation, Japan
 - Osaka University, Japan
 - Queens University, Belfast, UK
 - Peking University, China
 - R&D Ware, Finland
 - Ryerson University, Canada
 - SEI, USA
 - SeQuOIA Lab, USA
 - Simula Research Labs, Norway
 - SINTEF, Norway
 - SnT / University of Luxembourg, Luxembourg
 - Software Engineering Research & Practices s.r.l. (SER&Practices), Italy
 - Technical University of Catalunya - Barcelona TECH, Spain
 - 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 Groningen, The Netherlands
- University of Hawaii, USA
- University of Helsinki, Finland
- University of Innsbruck, Austria
- 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 Tennessee, USA
- 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

Rodrigo Meneses Porto Falcão, PhD candidate, Salvador, Bahia, Brazil, July 2015 - July 2019

Fábio Luiz Leite Júnior, PhD candidate, Campina Grande, Brazil, October 2014 - October 2018

Isabella Muniz Leite, PhD candidate, Campina Grande, Brazil, April 2016 - April 2020

Dr. Silverio Juan Martinez Fernandez, ERCIM postdoctoral researcher, Barcelona, Spain, October 1, 2016 - September 30, 2017

Prof. Dr. Daniel M. Berry, Professor Cheriton School of Computer Science, University of Waterloo, Waterloo, Ontario, Canada February 8-10, 2016

Daniel Soares Santos, Federal University of Sao Paulo, Sao Carlos, Brazil November 2015 - March 2016

Prof. Dr. Klaus Schmid, Professor, Software Systems Engineering (SSE) Universität Hildesheim, Hildesheim, Germany March 1, 2016 - October 31, 2016

Dr. Daniela Di Cecco, Global Carolina Regional Director – Europe and Associate Professor of French & Comparative Literature of the University of South Carolina, Columbia April 4, 2016

Prof. Dr. Daniel M. Berry, Professor, Cheriton School of Computer Science, University of Waterloo, Waterloo, Ontario, Canada May 1-5, 2016

Toshio Shimada, Vice Chairman/Chairman, JISA (IT / Software trade association)/ CAC Holdings Corporation, Tokyo, Japan May 31, 2016

Prof. Dr. Carolyn Seaman Professor, University of Maryland Baltimore County & Fraunhofer CESE, Maryland, USA June 27, 2016

Prof. Dr. Bernd Hindel, CEO, Method Park Erlangen, Germany July 4, 2016

Dr. Joan Gabel, Executive Vice President of Academic Affairs and Provost, University of South Carolina, Columbia, USA July 7-8, 2016

Dr. Allen Miller, Vice Provost and Director, International Programs Department of Languages, Literatures and Cultures, University of South Carolina, Columbia, USA July 7-8, 2016

Chad Hardaway, Director Technology Commercialization, University of South Carolina, Columbia, USA July 7-8, 2016

Fred Monk, Senior Advisor International Strategy & Trade, South Carolina Department of Commerce, Columbia, USA July 7-8, 2016

Dr. Michael Van Tooren, Professor and Director Aerospace Studies, University of South Carolina, Columbia, USA July 7-8, 2016

Prof. Dr. Shojiro Nishio, President, Osaka University, Osaka, Japan September 28, 2016

Jorge Fernando Silva Pereira Filho, Fraunhofer Project Center for Software and Systems Engineering at UFBA, Federal University of Bahia, Salvador, Brazil November 2015 - October 2016

Prof. Dr. Yoshifumi Nakata, Professor, Doshisha University, Tokyo, Japan November 21, 2016

PROFESSIONAL CONTRIBUTIONS

LECTURING ASSIGNMENTS

Adam, S.:

Lecture
Requirements Engineering,
Computer Science Department
Mannheim University
of Applied Sciences
Summer 2016

Becker, M.:

Lecture
Product Line Engineering
(2+1), Department of Computer
Science
University of Kaiserslautern
Winter 2015/2016

Darting S., Marx M.:

Seminar
Requirements and Systems
Engineering, Bildungszentrum
der Bundeswehr
November 23 – 25, 2016

Dörr, J.:

Lecture
Requirements Engineering,
Department of Computer
Science
University of Kaiserslautern
Winter 2015/2016
Winter 2016/2017

Lecture

Projekt Agile Methoden I,
Department of Computer
Science
University of Kaiserslautern
Summer 2016

Parts of the Lecture:

Einführung in die Sozioinfor-
matik
Department of Computer
Science
University of Kaiserslautern
Winter 2015/2016
Winter 2016/2017

Göpfert, B.:

Lecture
Organization of internal
Information Centers
Faculty III Media
University of Applied Sciences
and Arts of Hanover
Winter 2015/2016
Winter 2016/2017

Heidrich, J.:

Lecture
Process Modeling
Department of Computer
Science
University of Kaiserslautern
Summer 2016

Hess, S.:

Lecture
Einführung in die Mensch-
Maschine-Interaktion,
Software Engineering,
Mannheim University of
Applied Sciences
Summer 2016

Lecture

Mobile Software Engineering,
Software Engineering,
Mannheim University of
Applied Sciences
Winter 2016/2017

Jahic, J.:

Tutorial
Software Architectures for
Embedded Software Systems,
Distance Studies Master
Program
University of Kaiserslautern
Summer 2016

Knodel, J.:

Lecture
Software Architecture
Mannheimer Softwareengi-
neering Institut (MSI)
Mannheim University of
Applied Sciences
Summer 2016
Summer 2017

Lecture

Software Architectures for
Distributed Systems
Department of Computer
Science
University of Kaiserslautern
Summer 2016
Summer 2017

Lecture

Systemanalyse
International Management
for Business and Information
Technology (IMBIT)
Duale Hochschule Baden-
Württemberg (DHBW) Mann-
heim / Baden-Wuerttemberg
Cooperative State University
Mannheim
Winter 2015/2016
Winter 2016/2017

Seminar

Software Architecture
Fraunhofer Academy
April 1, 2016

Seminar

Software Architecture
Fraunhofer Academy
October 1, 2016

Kuhn, T.:

Lecture
Bus Systems
Department of Computer
Science
University of Kaiserslautern
Winter 2015/2016
Winter 2016/2017

Liggesmeyer, P.:

Lecture
Qualitätsmanagement von
Software und Systemen
Department of Computer
Science
University of Kaiserslautern
Winter 2015/2016

Lecture

Software-Qualitätssicherung
Department of Computer
Science
University of Kaiserslautern
Winter 2016/2017

Lecture

Sicherheit und Zuverlässigkeit
eingebetteter Systeme
Department of Computer
Science
University of Kaiserslautern
Winter 2015/2016
Winter 2016/2017

Lecture

Software-Entwicklung 2
Department of Computer
Science
University of Kaiserslautern
Summer 2016

Rombach, D.:

Lecture
Grundlagen des Software
Engineering Projekt,
Department of Computer
Science
University of Kaiserslautern
Summer 2016

Lecture

Grundlagen des Software
Engineering
Department of Computer
Science
University of Kaiserslautern
Winter 2015/2016
Winter 2016/2017

Lecture

Master Project Software
Engineering
Department of Computer
Science
University of Kaiserslautern
Winter 2015/2016
Winter 2016/2017

Rombach, D. (Wolschke):
Lecture
Software Project and Process
Management
Department of Computer
Science
University of Kaiserslautern
Summer 2016

Schwarz, R.:
Single Lecture
Fundamentals of Software
Engineering, Chapter 9:
Security Engineering, An
Overview
Department of Computer
Science
University of Kaiserslautern /
Fraunhofer IESE
(Master of Software En-
gineering)
February 5, 2016

Trapp Mario:
Lecture
Automotive Software Engi-
neering,
Department of Computer
Science
University of Kaiserslautern
Summer 2016

Webel, C.:
Seminar
Requirements and Systems
Engineering
German Army Education
Center (Bildungszentrum der
Bundeswehr)
2016

Lecture
Communication Systems
International Management
for Business and Information
Technology (IMBIT)
Duale Hochschule Baden-
Württemberg (DHBW) Mann-
heim / Baden-Wuerttemberg
Cooperative State University
Mannheim
Winter 2016/2017

Lecture
Kommunikationstechnologi-
en und -entwicklung,
Computer Science Depart-
ment
Mannheim University of
Applied Sciences
Winter 2016/2017

EDITORIAL BOARDS

Antonino, P.:
Journal Reviewer, IEEE Soft-
ware, since 2016

Journal Reviewer, Interna-
tional Journal On Advances in
Software, since 2012

Becker, M.:
Journal Reviewer, Journal
of Software Engineering
Research and Development,
since 2015

Bomarius, F.:
Member, Editorial Board,
Ph.D. Theses in Experimen-
tal Software Engineering,
Fraunhofer IRB Publishing
Company, since 2001

Dörr J.:
Journal Reviewer, Business &
Information Systems Engi-
neering, since 2010

Journal Reviewer, Require-
ments Engineering Journal,
since 2011

Journal Reviewer, The
Computer Journal, since
2011

Journal Reviewer, Informa-
tion and Software Technology
Journal, since 2012

Journal Reviewer, Empirical
Software Engineering Jour-
nal, since 2012

Journal Reviewer, Journal of
Software and Systems Model-
ing, since 2012

Journal Reviewer, IEEE Soft-
ware, since 2016

Journal Reviewer, Transac-
tions on Software Engineer-
ing (TSE), since 2016

Elberzhager, F.:
Journal Reviewer, Information
and Software Technology,
Elsevier, since 2012

Journal Reviewer, Software
Quality Journal, since 2012

Journal Reviewer, Journal of
Systems and Software, since
2016

Journal Reviewer, IEEE Soft-
ware, since 2016

Journal Reviewer, Science
of Computer Programming,
since 2016

Kläs, M.:
Journal Reviewer, Journal of
Systems and Software, Else-
vier, since 2009

Journal Reviewer, Information
and Software Technology,
Elsevier, since 2011

Journal Reviewer, Compu-
tational Intelligence, Wiley
Periodicals, since 2013

Journal Reviewer, IEEE
Transactions on Software
Engineering, IEEE Computer
Society, since 2013

Journal Reviewer, Neural
Computing and Applications,
Springer, since 2015

Journal Reviewer, Science
of Computer Programming,
Elsevier, since 2016

Knodel, J.:
Journal Reviewer, IEEE Soft-
ware, since 2010

Journal Reviewer, IEEE Trans-
actions on Software Engi-
neering, 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

Liggesmeyer, P.:
Editor, Informatik – Forschung und Entwicklung, Springer, since 2000

Editor, it – information technology, Oldenbourg-Verlag, Munich, 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

Naab, M.:
Journal Reviewer, Information and Software Technology - Journal - Elsevier, since 2015

Journal Reviewer, Information Technology Journal, since 2015

Journal Reviewer, Journal of Systems and Software, since 2015

Reviewer, IEEE Software, since 2016

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

Schneider, D.:
Journal Reviewer, IEEE Transactions on Intelligent Transportation Systems, since 2016

Schwarz, R.:
Journal Reviewer, IEEE Transactions on Dependable and Secure Computing, since 2012

Scientific Reviewer, Journal of Universal Computer Science (JUICS), since 2016

Trapp, Mario.:
Journal Reviewer, IEEE Transactions on Software Engineering, since 2008

Journal Reviewer, IEEE Software, since 2010

Journal Reviewer, Elsevier Journal on Systems and Software, since 2010

Journal Reviewer, IEEE Transactions on Reliability, since 2010

Journal Reviewer, ACM Transactions on Embedded Computing Systems, since 2008

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

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

Villela K.:
Journal Reviewer, Information and Software Technology, since 2016

Webel, C.:
Journal Reviewer, Computer Networks, since 2008

COMMITTEE ACTIVITIES

Antonino, P.:

PC Member, The Eleventh International Conference on Software Engineering Advances, ICSEA 2016, Rome, Italy, August 21 - 25, 2016

Becker, M.:

PC Member, First International Workshop on Variability and Complexity in Software Design, VACE 2016, The 38th International Conference on Software Engineering, ICSE 2016, Austin, USA, May 16, 2016

PC Member, 4th International Workshop on Software Engineering for Systems-of-Systems, SESoS 2016, The 38th International Conference on Software Engineering, ICSE 2016, Austin, USA, May 16, 2016

PC Member, 10th Brazilian Symposium on Software Components, Architectures, and Reuse, SBCARS 2016, Maringá, Brazil, September 19 - 20, 2016

PC Member, International Systems and Software Product Line Conference, SPLC 2016, Beijing, China, September 19 - 23, 2016

PC Member, 3rd International Conference of Information Systems Security and Privacy, ICISSP 2017, Porto, Portugal, February 19 - 21, 2017

Dörr, J.:

PC Member, Requirements Engineering Conference, ReconF 2016, Munich, Germany, February 29 - March 4, 2016

PC Member, 22nd International Working Conference on Requirements Engineering, REFSQ 2016, Gothenburg, Sweden, March 14 - 17, 2016

PC Member, Research Method Track at 22nd International Working Conference on Requirements Engineering, REFSQ 2016, Gothenburg, Sweden, March 14 - 17, 2016

Organizer, Sixth International Workshop on Creativity in Requirements Engineering CreaRE 2016, 22nd International Working Conference on Requirements Engineering, REFSQ 2016, Gothenburg, Sweden, March 14 - 17, 2016

PC Member, 2nd International Workshop on BIG Data Software Engineering, BIGDSE 2016, The 38th International Conference on Software Engineering, ICSE 2016, Austin, USA, May 16, 2016

PC Member, 9th International Workshop on Software Product Management, IWSPM 2016, 24th IEEE International Requirements Engineering Conference, Beijing, China, September 13, 2016

PC Member, ACM/IEEE 19th International Conference on Model Driven Engineering Languages and Systems, MODELS 2016, Saint-Malo, France, October 2 - 7, 2016

Organizer, Workshop Digital Services, FhG Cyber-Security Day 2016, Berlin, Germany, October 20, 2016

PC Member, ERP Future 2016, Hagenberg, Austria, November 14 - 15, 2016

Elberzhager, F.:

PC Member, Software Quality Days 2016, SWQD 2016, Vienna, Austria, January 18-21, 2016

PC Member, 42th Euromicro Conference series on Software Engineering and Advanced Applications, SEAA 2016, SEAA Track, Limassol, Cyprus, August 31 - Sept. 2, 2016

Session Chair, EsPreSSE Track 42th Euromicro Conference series on Software Engineering and Advanced Applications, SEAA 2016, Limassol, Cyprus, August 31 - Sept. 2, 2016

Hess, S.:

PC Lead, Usability Professionals, Mensch und Computer 2016, Aachen, Germany, July 4.-7, 2016

Holl, K.:

Session Chair, Risk Management & Decision Making Support 42th Euromicro Conference on Software Engineering and Advanced Applications, SEAA 2016, Limassol, Cyprus, August 31 2016

Jung, C.:

Technical Program Committee Member, The Sixth International Conference on Mobile Services, Resources, and Users, MOBILITY2016, Valencia, Spain, May 22 - 26, 2016

PC Member, The 2016 International Conference on Security and Management, SAM'16, Las Vegas, USA, July 25 - 28, 2016

Kalmar, R.:

PC Member, 4th Commercial Vehicle Technology Symposium, Kaiserslautern, Germany, March 8-10, 2016

PC Member, 14. Workshop Automotive Software Engineering (ASE), 46. Jahrestagung der Gesellschaft für Informatik, Graz, Austria, September 27, 2016

Kläs, M.:

PC Member, 42th Euromicro Conference series on Software Engineering and Advanced Applications, SEAA 2016, Limassol, Cyprus, August 31 - September 2, 2016

PC Member, International Workshop on Quality in Databases, QDB 2016, 42nd International Conference on Very Large Data Bases, VLDB 2016, New Delhi, India, September 5, 2016

PC Member, 10th International Symposium on Empirical Software Engineering and Measurement, ESEM 2016, Ciudad Real, Spain, September 8 - 9, 2016

Knodel, J.:

PC Member, First International Workshop on Variability and Complexity in Software Design, VACE 2016 38th International Conference on Software Engineering, ICSE 2016, Austin, USA, May 15, 2016

PC Member, Tool Track, International Conference on Program Comprehension, ICPC 2016, Austin, USA, May 16 - 17, 2016

PC Member, 1st Symposium on Balancing Traditional and Modern Software Process Approaches, BTMSPA'16 Federated Conference on Computer Science and Information Systems, FedCSIS 2016, Gdansk, Poland, September 11 - 14, 2016

Industry Track Co-Chair, 32nd IEEE International Conference on Software Maintenance and Evolution, ICSME 2016, Raleigh, USA, October 2 - 10, 2016

PC Member, and PC Member Tools Track, 10th European Conference on Software Architecture, ECSA 2016, Copenhagen, Denmark, November 28 - December 2, 2016

Co-Organizer, 4th International Workshop on Ecosystem Architectures, WEA 2016 10th European Conference on Software Architecture, ECSA 2016, Copenhagen, Denmark, November 28 - December 2, 2016

PC Member, 3rd Workshop on Software Architecture Erosion and Architectural Consistency, SAeroCon 2016, 10th European Conference on Software Architecture, ECSA 2016, Copenhagen, Denmark, November 28 - December 2, 2016

Kuhn, T.:

PC Member, The 14th ACM-IEEE International Conference on Formal Methods and Models for System Design, MEMOCODE 2016, Kanpur, India, November 18 - 20, 2016

Naab, M.:

PC Member, 13th Working IEEE/IFIP Conference on Software Architecture, WICSA 2016, Venice, Italy, April 5 - 8, 2016

PC Member, First International Workshop on Bringing Architecture Design Thinking into Developers' Daily Activities, BRIDGE'16, The 38th International Conference on Software Engineering, ICSE 2016, Austin, USA, May 17, 2016

Rost, D.:

PC Member, 4th International Workshop on Ecosystem Architectures, WEA 2016, 10th European Conference on Software Architecture, ECSA 2016, Copenhagen, Denmark, November 28 - December 2, 2016

Schneider, D.:

Conference Chair, Safety meets Security, Kaiserslautern, Germany, March 2, 2016

PC Member, 2nd International Workshop on Safety and Security of Intelligent Vehicles SSIV 2016, The 46th Annual IEEE/IFIP International Conference on Dependable Systems and Networks, DSN 2016, Toulouse, France, June 28, 2016

Schwarz, R.:

PC Member, 2nd International Workshop on MILS: Architecture and Assurance for Secure Systems, HiPEAC Conference 2016 (European Network of Excellence on High Performance and Embedded Architecture and Compilation), Prague, Czech Republic, January 19, 2016

Trapp, Mario:

PC Member, The 4th International Conference on Model-Driven Engineering and Software Development, MODELSWARD 2016, Rome, Italy, February 19-21, 2016

PC Member, IEEE International Conference on Software Testing, Verification and Validation, ICST 2016, Chicago, IL, USA, April 10-15, 2016

Workshop Chair, 4th International Workshop on Critical Automotive Applications: Robustness & Safety, CARS 2016, 12th European Dependable Computing Conference, EDDC 2016, Gothenburg, Sweden, September 5 - 7, 2016

PC Member, International Conference on Computer Safety, Reliability and Security, SAFECOMP 2016, Trondheim, Norway, September 20 - 23, 2016

PC Member, ACM/IEEE 19th International Conference on Model Driven Engineering Languages and Systems, MODELS 2016, Saint-Malo, France, October 2 - 7, 2016

PC Member, FTA Praxisforum Fehlerbaumanalyse, Munich, Germany, October 18-19, 2016

PC Member, Conference Chair, safetronic.2016 - Functional Safety in Automotive, Stuttgart, Germany, November 7 - 9, 2016

Zhang, Bo:

Session Chair, The 20th International Systems and Software Product Line Conference, SPLC 2016, Beijing, China, September 19 - 23, 2016

SCIENTIFIC AND TECHNOLOGICAL ADVISORY BOARDS

Becker, M.:

Member Fachbeirat, Varianten-Management in Software und Systems Engineering (VariantWorld), Leipzig, Germany, since 2016

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

Head of User Group Requirements Engineering, Softwareforen Leipzig, Leipzig, Germany, since 2012

Member, DIN SPEC "Standards im Big Data" 2016/2017, DIN Berlin, Germany, since 2016

Member, Standardisierung ISAEN, since 2016

Göpfert, B.:

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

Kläs, M.:

Member, DIN Komitee Erarbeitung der DIN SPEC 91349 - Taxonomie zu Regelwerken bei Smart Data, since 2016

Knodel, J.:

Spokesperson, Fachgruppe Software-Reengineering (FG-SRE), Gesellschaft für Informatik e.V. (GI), Bonn, Germany, since 2016

Member, Arbeitskreis BDI initiativ Internet der Energie, Bundesverband der Deutschen Industrie e.V., Germany, since 2014

Liggemeyer, 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, Darmstadt University of Applied Sciences, since 2011

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

Member, Scientific Steering Board, SafeTRANS, Germany, since 2015

Member, Scientific Advisory Board, Leibniz-Zentrum für Informatik, Dagstuhl, Germany, since 2015

Member, Advisory Council, German Chapter of ACM, Kaiserslautern, Germany since 2015

Council of Experts Software made in Germany, Munich, Germany, since 2015

Member, Plattform "Sicherheit, Schutz und Vertrauen für Gesellschaft und Wirtschaft", Berlin, Germany, since 2015

Member, Plattform "Industrie 4.0", Berlin, Germany, since 2015

Member, Plattform "Verbraucherpolitik in der Digitalen Welt" des BMJ, Berlin, Germany, since 2015

Member, Plattform "Digitalisierung in Bildung und Wissenschaft" des BMBF, Berlin, Germany, since 2015

Member, Allianz für Cyber Security des BSI, Berlin, Germany, since 2015

Chairman of the Board, Zentrum Digitalisierung Bayern, Munich, Germany, since 2015

Member, fast, Kaiserslautern, Germany, since 2015

Member, Landesrat für digitale Entwicklung und Kultur, Mainz, Germany, since 2016

Member, Advisory Board, Zukunftsregion Westpfalz e.V., Kaiserslautern, Germany since 2016

Member, Wissenschaftlicher Beirat des Commercial Vehicle Cluster, since 2016

Member, Beirat für das Institut für Informatik, AutoUni, Wolfsburg, Germany, since 2016

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

Chair, Continuing Education Master "Software Engineering for Embedded Systems", DISC, University of Kaiserslautern, Kaiserslautern, since 2006

Member, Governing Board; European Erasmus Mundus Master "Empirical Software Engineering", University of Kaiserslautern, Kaiserslautern, since 2009

Member, Strategy Board, Software-Cluster, Kaiserslautern, since 2009

Chair, IEEE Harlan D. Mills Award, since 2009

Chair, SEI Process Achievement Award, USA, since 2009

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

Member, Advisory Board to Secretaries; Ministry of Law and Health of Rhineland-Palatinate, Germany, since 2014

Member, Research Committee, Münchner Kreis e.V., Munich, since 2015

Fellow, IEEE Fellows Evaluation Committee, USA, since 2015

Schneider, D.:

Workgroup Member / Contributor, Safetrans AK Hochautomatisierte Systeme, Germany, since 2013

Schwarz, R.:

Founding Member, International Secure Software Engineering Council (ISSECO), Potsdam, since 2008

Board Member, TeleTrust Professional for Secure Software Engineering: (T.P.S.S.E.), Berlin, Germany, since 2016

Trapp, Marcus:

Member, Scientific Advisory Board, MFG Stiftung Baden-Württemberg, Stuttgart, Germany, since 2014

Trapp, Mario:

Member, Normungsausschuss der ISO 26262 des DIN/VDA, since 2014

MEMBERSHIPS IN INDUSTRIAL ADVISORY BOARDS**Rombach, D.:**

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

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

Member, Board, StoREgio Energiespeichersysteme e.V. Ludwigshafen, Germany since 2013

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

CEO, Science Alliance Kaiserslautern, Kaiserslautern, since 2015

MEMBERSHIPS IN PROFESSIONAL ASSOCIATIONS**AAL– Allianz****Access SOS Emergency**

ACL – Association for Computational Linguistics

ACM – Association of Computing Machinery, German Chapter of the ACM

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, Digitale Transformation, Fin-Techs, Insurance & Banking Innovations, Financial Services Compliance, Mobile, Sicherheitsanwendungen, Sicherheitsmanagement, Smart City, Softwarearchitektur, Usability & User Experience (UUX), Verteidigung

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

German UPA - Arbeitskreis User Research

GDM – Gesellschaft für Didaktik der Mathematik

GFal – Gesellschaft zur Förderung angewandter Informatik e.V.

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

GfSE – Arbeitskreis FAS

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

idw – Informationsdienst Wissenschaft

IEEE – Institute of Electrical and Electronic Engineers, IEEE Computer Society

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

Lero – The Irish Software Engineering Research Centre

MedTech Pharma

MK – Münchner Kreis e.V.

NEGZ – Nationales E-Government Kompetenzzentrum e.V.

OMG – Object Management Group

SafeTRANS – Safety in Transportation Systems

Science Alliance Kaiserslautern e.V.

Schloss Dagstuhl**Softwareforen Leipzig GmbH**

STI – Software Technologie Initiative e.V.

Tekom – Fachverband für technische Kommunikation und Dokumentation

TeleTrust – Bundesverband IT-Sicherheit e.V.

Uni-KiTA

VDMA – Arbeitskreis Mobile Apps & Co.

VDR – Verband Deutsches Reisemanagement e.V.

XING AG

KEYNOTES

Becker, M.:

“Konfigurationskonzepte im Bezug auf die Digitalisierung”
6. Jahrestagung Variantenmanagement im Maschinen- und Anlagenbau, Stuttgart, Germany, September 30, 2016

Liggismeyer, P.:

“Von Software zu Smart Ecosystems: Trends und Auswirkungen auf das Requirements Engineering”
REConf 2016, Munich, Germany, March 2, 2016

“Frauen und Informatik”

Festakt zum 30-jährigen Bestehen der GI-Fachgruppe “Frauen und Informatik”, Paderborn, Germany, April 17, 2016

“Grand Challenges der Informatik”

MCI Kongress, GI-Fachbereich Mensch-Computer-Interaktion (MCI), Berlin, Germany, June 2, 2016

“Industrie 4.0 - Von der großen Vision zur schrittweisen Umsetzung”

Netzwerkforum Graz, Graz, Austria, June 22, 2016

“Vom Softwaretest zu sicheren Cyber-Physical Systems: Herausforderungen und Lösungsansätze”

25 Jahre TAV, GI-Fachgruppe Test, Analyse und Verifikation von Software, Bremen, Germany, June 23, 2016

“Nachbarschaftshilfe im 21. Jahrhundert. Deutschlands Dörfer werden digital”
Demografiekongress, Berlin, Germany, September 2, 2016

“IoT, Industrie 4.0 und Big Data: Herausforderungen für die Informatik und GI”
Informatik 2016, 46. Jahrestagung der GI, Klagenfurt, Austria, September 28, 2016

“Industrie 4.0 - Von der großen Vision zur schrittweisen Umsetzung”

36. Jahrestagung des Fachbereichstages Informatik, Görlitz, Germany, Oktober 11, 2016

“Smart Ecosystems: Herausforderungen und Lösungsansätze”

Sophist Days 2016, Nuremberg, Germany, October 19, 2016

“Digitale Dörfer: Informatik-Expertise, Medienkompetenz und digitale Bildung auch fürs Land”

10. Nationaler IT-Gipfel, Saarbrücken, Germany, November 16, 2016

“Smart Everything - welche Macht hat IT?”

DGRI Jahrestagung, Deutsche Gesellschaft für Recht und Informatik e.V., Frankfurt / Main, Germany, November 18, 2016

Rombach, D.:

“Neue Geschäftsmodelle im Energiebereich durch Digitalisierung”

8. Lautrer Energieforum der SWK 2016, Kaiserslautern, Germany, April 13, 2016

“Industry 4.0 – New Ways of Engineering for the Systems of the Future”

TNO-ESI Symposium 2016, Eindhoven, The Netherlands, April 19, 2016

“GTIAC”

John Deere Awards, Enterprise Innovation & Collaboration European Awards Banquet, Mannheim, Germany, June 28, 2016

“Neue Produkte in der digitalen Welt - wo stehen wir und was ist zu tun?”

Münchener Kreis, Abschlusskonferenz des Projektes zum Thema “Neue Produkte in der digitalen Welt”, Paderborn, Germany, June 29, 2016

“Internet of Things”

4. Deutsch-Brasilianisches Innovationsseminar, São Paulo, Brazil, September 29, 2016

“Digital Transformation: Opportunities & Challenges”
ARTEMIS Technology Conference 2016, Madrid, Spain, October 5, 2016

“Industrie 4.0”

IG Metall-Seminar, Kaiserslautern, Germany, November 14, 2016

Trapp, Mario:

“Digitalisierung der Welt”
2. Jahrestagung des Kompetenzzentrums Geschäftsmodelle in der digitalen Welt der Universität Bamberg, Bamberg, Germany, November 10, 2016

PRESENTATIONS

Amorim, T.:

Towards safe mixed critical embedded multi-core systems in dynamic and changeable environments, Conference Presentation, CPS Week, EMC2 Summit, Vienna, Austria, January 18, 2016

Barthel, H.:

Big Data Technologies, Tutorial, IWSM MENSURA 2016, DASMA, Berlin, Germany, October 7-9, 2016

Becker, M.:

Proactive Maintenance for Commercial Vehicles, Presentation, CVT Symposium 2016 CVC Südwest, Kaiserslautern, Germany, March 9, 2016

Mastering Variant Complexity, Presentation, TNO-ESI Symposium 2016, Eindhoven, The Netherlands, April 19, 2016

Anpassbare Software geschickt umgesetzt, Presentation, ESE Kongress 2016, Microconsult, Sindelfingen, Germany, November 18, 2016

The impact of agile development on variant management, Presentation, Smart Automotive Variant.Con 2016, We.Connect, Berlin, Germany, November 21, 2016

Konfigurationsmanagement variantenreicher Systeme, Tutorial, ESE Kongress 2016, Microconsult, Sindelfingen, Germany, November 30, 2016

Systems Engineering Study in Germany Part 2 - Best Practices for Systems Engineering, Presentation, IPA/SEC Special Seminar, IPA/SEC, Tokyo, Japan, October 24, 2016

Systems Engineering Study in Germany Part 2 - Best Practices for Systems Engineering, Presentation, IPA/SEC Special Seminar, IPA/SEC, Osaka, Japan, October 26, 2016

Systems Engineering Workshop, Workshop, IPA/SEC Systems Engineering Workshop, IPA/SEC, Tokyo, Japan, December 19, 2016

Braun, S.:

CU! - Continuous Usability mit offline-fähigen Apps, Industry Presentation, JavaLand, JavaLand GmbH, Brühl, Germany, March 7-9, 2016

Diebold, Ph.:

Software Process Models vs. Descriptions: What do Practitioners use and need? Conference Presentation, International Conference on Software and System Processes, ICSSP2016, University of Texas, Austin, Texas, USA, May 14, 2016

A Multiple Case Study on the Architect's Role in Scrum, Conference Presentation, 17th International Conference on Product-Focused Software Process Improvement (PROFES 2016), NTNU Trondheim, Trondheim, Norway, November 24, 2016

Dörr, J.:

Are companies prepared for the digital revolution?, Panel, Relaunching Europe, Europäische Sozialdemokraten, Koblenz, Germany, January 21, 2016

Datennutzungskontrolle für innovative Geschäftsmodelle Presentation, 9. Mobile Business Trends, Eco e.V., Düsseldorf, Germany, June 9, 2016

Sicherheitsökonomie und Standardisierung als ein Weg zu mehr Akzeptanz, Panel, Smart Data Jahreskongress „Mit Sicherheit Smart Data“, BMWI, Berlin, Germany, November 14, 2016

Datennutzungskontrolle als Enabler für Vertrauen in Datennutzung, Presentation, Arbeitskreis „Trust in Data“, Münchner Kreis, Munich, Germany, December 20, 2016

Dropmann, C.:

An automated interference identification approach, Conference Presentation, HiPEAC EMC², Prague, Czech Republic, January 14, 2016

Multidirectional Modular Conditional Safety Certificates, Industry Presentation; Airbus EMC² Exchange/Cooperation Workshop, Munich, Germany, February 10, 2016

Feth, D.:

Data Usage Control with IND²UCE, Presentation, Workshop-Treffen, Fachgrup-

pe Smart Data Begleitforschung, FZI Forschungszentrum für Informatik, Berlin, Germany, February 22, 2016

Feth, P.:

Safety Engineering for Autonomous Vehicles, Workshop, 2nd International Workshop on Safety and Security for Intelligent Vehicles, 46th Annual IEEE/IFIP International Conference on Dependable Systems and Networks, Toulouse, France, June 28 – July 1, 2016

Service-based Modeling of Cyber-Physical Automotive Systems: A Classification of Services, Workshop, 4th International Workshop on Critical Automotive Applications: Robustness & Safety, 12th European Dependable Computing Conference, Gothenburg, Sweden, September 5-9, 2016

Göpfert, B.:

Gestaltung des digitalen Wandels: Ein Transformationsprojekt aus der Informationspraxis des Fraunhofer IESE, Presentation, Hochschule Hannover - University of Applied Sciences and Arts Hanover, Germany, November 7, 2016

Groen, E. C.:

Wie Automatisierung das RE effizienter machen kann - Beispiele aus aktuellen Forschungsarbeiten, Industry Seminar, REConf'16, HOOD Group, Munich, Germany, February 29, 2016

Heidrich, J.:

Process Performance Management, Presentation, ITEC group event, Doshisha University, Kyoto, Japan, April 15, 2016

Exploiting the Benefits of Big Data in Smart Ecosystems, Presentation, Innovation and Industrie 4.0 with Fraunhofer, Tokyo, Japan, April 16, 2016

Big Data Technologies, Tutorial, IWSM MENSURA 2016, DASMA, Berlin, Germany, Oct 7-9, 2016

Systems Engineering Study in Germany Part 1 – Overview and Analysis Results, Presentation, IPA/SEC Special Seminar, IPA/SEC, Tokyo, Japan, October 24, 2016

Systems Engineering Study in Germany Part 1 – Overview and Analysis Results, Presentation, IPA/SEC Special Seminar, IPA/SEC, Osaka, Japan, October 26, 2016

Systems Engineering Workshop, Workshop, IPA/SEC Systems Engineering Workshop, IPA/SEC, Tokyo, Japan, December 19, 2016

Hess, S.:

Digitale Dienste von und mit ländlichen Regionen, Presentation, Mittelstand Digital Jahrestagung PUMA, BMWI, Frankfurt, Germany, June 10, 2016

Betzdorf Digital, Presentation, BITKOM Akademie Roundtable zum Thema Smart Villages, Bitkom, Dillenburg, Germany, July 7, 2016

Potentiale der Digitalisierung ländlicher Regionen, Presentation, eDorf Projekt - Informationsveranstaltung, Fraunhofer IIS, Nuremberg, Germany, July 21, 2016

Das Projekt Digitale Dörfer, Demo, Sommertour von Ministerpräsidentin Malu Dreyer, Stadt Betzdorf, Betzdorf, Germany, July 27, 2016

Das Projekt Digitale Dörfer, Demo and Presentation, Besuch von Frau Raab bei proRZ, proRZ, Betzdorf, Germany, August 2, 2016

Digitale Dörfer, Presentation, Workshop Mobile Systems as part of Smart Ecosystems, Mensch und Computer 2016, Aachen, Germany, September 5, 2016

Smart Rural Regions, Presentation, Sitzung des Ausschusses für Wirtschaft, Tourismus und Verkehr des Deutschen Städte- und Gemeindebundes, Deutscher Städte- und Gemeindebund, Stuttgart, Germany, September 20, 2016

Digitale Dörfer - Logistik als Teil des ländlichen Ökosystems, Presentation, Sitzung des BvDP, Bundesverband deutscher Paketdienstleister, Waldkirch, Germany, September 21, 2016

Smart Cities und Smart Regions, Presentation, DIHK Stadtentwicklung, DIHK, Neuss, Germany, September 30, 2016

Smart Services für ländliche Räume, Presentation, Innovationsforum ver.di/IAO, Fraunhofer IAO, Stuttgart, Germany, October 5, 2016

Digitale Communities für ländliche Regionen, Presentation, World Usability Day, Hamburg, GermanUPA, Hamburg, Germany, November 10, 2016

Digitale Dörfer Ergebnispräsentation, Presentation, Digitale Dörfer Abschlussevent, Fraunhofer IESE, Kaiserslautern, Germany, November 24, 2016

Smart Country Side, Presentation, Auftaktveranstaltung Smart Country Side, OWL Arena Lippe, Abtei Marienmünster, Germany, November 30, 2016

Holl, K.:

A Quick and Effective Approach for On-Site Mobile Evaluations, Conference Presentation, 13th International Conference on Mobile Systems and Pervasive Computing, MobiSPC 2016, Montreal, Canada, August 16, 2016

An Approach for Evaluating and Improving the Test Processes of Mobile Application Developments, Conference Presentation, 13th International Conference on Mobile Systems and Pervasive Computing, MobiSPC 2016, Montreal, Canada, August 16, 2016

Mobile Application Quality Assurance: Reading Scenarios as Inspection and Testing Support, Conference Presentation, 42nd Euromicro Conference on Software Engineering and Advanced Applications, SEAA 2016 Limassol, Cyprus, August 31, 2016

Interaction with Mobile Systems as part of Smart Ecosystems, Workshop, Mensch und Computer, MuC 2016 Aachen, Germany, September 5, 2016

Optimization of Mobile Applications through a Feedback-based Quality Assurance Approach, Poster Presentation, 15th International Conference on Mobile and Ubiquitous Multimedia, MUM 2016, Rovaniemi, Finland, December 14, 2016

Quality Assurance for Mobile Applications - A Systematic Mapping Study, Conference Presentation, 15th International Conference on Mobile and Ubiquitous Multimedia, MUM 2016, Rovaniemi, Finland, December 14, 2016

Jeswein, T.:

Digitale Dörfer; Presentation, Reguläre Sitzung des AK „Mobilität im ländlichen Raum“, CDU Rheinland-Pfalz, Kreisverband Südwestpfalz, Pirmasens, Germany, January 18, 2016

Digitale Dörfer, Presentation and Participation Podiumsdiskussion, Kongress der GRÜNEN NRW mit dem Titel: „Heimat.Land.Grün“. Darin

Beteiligung am Forum: „Digitales Leben“, Die GRÜNEN Nordrhein-Westfalen, Bad Sassenberg, Germany, March 12, 2016

Digitale Dörfer, Participation Podiumsdiskussion, „polis Convention 2016 mit dem Titel: “STADT – LAND – FLUSS: Über die Beziehungen zwischen Metropole, Stadt, Zwischenstadt, Land und Umland“. Darin Beteiligung am Forum: “Urban Solutions – Konzepte für die Stadt von morgen“, polis Magazin für Urban Development / polisConvention GmbH, Düsseldorf, Germany, April 20, 2016

Revitalisierung ländlicher Regionen durch Digitalisierung: Ergebnisse aus der Praxis (Digitale Dörfer), Presentation, 4. Fachkongress des IT-Planungsrates. Darin Beteiligung am Forum: „Digitalisierung ländlicher Regionen“, IT-Planungsrat, Berlin, Germany, May 2, 2016

Digitale Dörfer; Betreuung Exponat, 7. egov-Day, Universität Koblenz-Landau, Institut für Wirtschafts- und Verwaltungsinformatik (IWVI) in Kooperation mit dem egov-network und dem Verein IT.Stadt Koblenz e.V., Koblenz, Germany, June 2, 2016

Digitale Dörfer, Presentation, Reguläre Clubversammlung, Rotary Club Kaiserslautern-Kurpfalz, Kaiserslautern, Germany June 9, 2016

Digitale Dörfer, Presentation and Participation in Panel Discussion „Dörfersterben oder Landleben 2.0?“, Möglichkeiten des Breitbandausbaus im ländlichen Raum, Junge Union Sachsen & Niedersachsen, Leipzig, Germany, October 6, 2016

E-Government am Fraunhofer IESE, Presentation, ZDH-Fachforum „Internet und Digitale Kommunikation“, Zentralverband des Deutschen Handwerks, Berlin, Germany, November 3, 2016

Digitale Dörfer, Participation Podiumsdiskussion, 11. DEMO-Kommunalkongress mit dem Titel: „Wir in den Kommunen“. Darin Beteiligung am Workshop: „Ländliche Räume: Intelligente Infrastruktur – Motor für Wirtschaft und Gesellschaft“, DEMO – Das sozialdemokratische Magazin für Kommunalpolitik, organisiert von der Berliner vorwärts Verlagsgesellschaft mbH, Berlin, Germany, November 4, 2016

Digitale Dörfer, Presentation, Reguläre Sitzung des AK „Mobilität im ländlichen Raum“, CDU Rheinland-Pfalz, Kreisverband Südwestpfalz, Pirmasens, Germany, December 13, 2016

Jung, C.: PRO-OPT - Smart Data Workshop, Workshop, Informatik 2016, 46. Jahrestagung der GI, BMWi/BMVI Vernetzungsworkshop mit Schwerpunkt „Europäische Standardisierungsansätze für Smart Data Technologien“ (Smart

Data Begleitforschung), Klagenfurt, Austria, September 29

Kalmar, R.: Smart Farming – Forschung und Lösungsentwicklung für die Praxis, Presentation, Arbeitskreis Smart Farming, Bitkom, Berlin, Germany, February 15, 2016

Industrie 4.0 – Herausforderungen und Chancen für den Mittelstand, Presentation, Wirtschaftsforum Donnersberger Land, Eisenberg, Germany, November 21, 2016

Klås, M.: Big Data Potential Analysis, Seminar, Fraunhofer IESE, Kaiserslautern, Germany, February 18-19, 2016

Fraunhofer IESE als IT Transferinstitut, Presentation, SE FIT: Software Engineering Forum der IT Transferinstitute, Vienna, Austria, February 23, 2016

Effekte modellbasierter Test- und Analyseverfahren in Unternehmen – Ergebnisse einer großangelegten empirischen Evaluation mittels industrieller Fallstudien, Conference Presentation, Software Engineering Conference, TU Wien, Vienna, Austria, February 25, 2016

HyDEEP: Transparent Combination of Measurement and Expert Data for Defect Prediction, PhD Defense, University of Kaiserslautern, Kaiserslautern, Germany, April 22, 2016

Certified Data Scientist Basic Level „Business Potentials“, Seminar, Certified Data Scientist, Fraunhofer, St. Augustin, Germany, June 10, 2016

Big Data, Seminar, Seminar Big Data Potenzialanalyse, Fraunhofer IESE, Kaiserslautern, Germany, July 21-22, 2016

Quality Evaluation for Big Data: A Scalable Assessment Approach and First Evaluation Results, Conference Presentation, IWSM Mensura 2016, International Conference on Measurement and Data Analytics, Berlin, Germany, October 6, 2016

Big Data & Business, Seminar, Fraunhofer Data Scientist Seminar, Fraunhofer IAIS, St. Augustin, Germany, November 11, 2016

Big Data, Seminar, Seminar: „Analyse des Potentials von Big Data“, Fraunhofer IESE, Kaiserslautern, Germany, December 1-2, 2016

Koch, M.: Wie Automatisierung das RE effizienter machen kann – Beispiele aus aktuellen Forschungsarbeiten, Conference Presentation, REConf 2016, HOOD GmbH, Munich, Germany, February 29 - March 2, 2016

Digitale Innovationen von Bürgern für Bürger - Design Thinking oder Citizen Science?, Vortrag im Rahmen der Usability-Professionals Praxistagung, Mensch und

Computer, Gesellschaft für Informatik e.V., Fachbereich Mensch-Computer-Interaktion, Aachen, Germany, September 4 - 7, 2016

Planung und Durchführung einer Tool-Bewertung am Beispiel von BPM Suites, Presentation, Softwareforen Leipzig User Group „Requirements Engineering“, Softwareforen Leipzig, Leipzig, Germany, November 17 - 18, 2016

RE auf dem Land – alles andere als Standard? – Anforderungserhebung in ländlichen Regionen, Presentation, Fachgruppentreffen „Requirements Engineering“ der GI, Stuttgart, Germany, November 24 - 25, 2016

Kuhn T.:

Ein Betriebssystem für Produktionsanlagen in der Industrie 4.0, Invited Talk, Arbeitskreis Industrie 4.0 Interoperabilität, Bitkom, Bielefeld, Germany, December 14, 2016

Lenhart, T.:

Big Data meets Big Data, Conference Presentation, Big Data Summit, Bitkom, Frankfurt, Germany, February 25, 2016

Impulsvortrag Smart Farming, Workshop, Ideen-Labor Stendal, Landkreis Stendal, Stendal, Germany, May 25, 2016

Big Data meets Big Data – Wie die Integration von Big-Data-Lösungen über Unternehmensgrenzen

gelingt, Conference Presentation, Architekturen 2016, Gesellschaft für Informatik, Hildesheim, Germany, June 23, 2016

Klare Sicht trotz aufziehender Wolken - Wie die Cloud das Software Engineering verändert, Conference Presentation, Bitkom AK SE, Bitkom, Frankfurt, Germany, September 23, 2016

Lerner, D.:

Das Projekt EPICSAVE - Didaktisches Konzept, Presentation, InSim, Interdisziplinäres Symposium zur Simulation in der Medizin, Deutsche Gesellschaft zur Förderung der Simulation in der Medizin, DGSim, Dresden, Germany, October 14, 2016

Luiz, Th.:

Real verfügbare Klinikkapazitäten für zeitkritische Erkrankungen in Rheinland-Pfalz: Erkenntnisse aus dem Zentralen Landesweiten Behandlungskapazitätsnachweis, ZLB, Presentation, Wissenschaftliche Arbeitstage Notfallmedizin Deutsche Gesellschaft für Anästhesiologie und Intensivmedizin, Kiel, Germany, February 7-8, 2016

Prähospitale CPAP-Anwendung bei Patienten mit akuter respiratorischer Insuffizienz infolge kardiogenem Lungenödem oder COPD, Presentation, Deutscher Interdisziplinärer Notfallmedizin Kongress, Deutsche Gesellschaft für Anästhesiologie und Intensivmedizin, Koblenz, March 3-4, 2016

Organisation und Grundlagen des Rettungsdienstes, Presentation, Kursus zur Erlangung der Zusatzbezeichnung Notfallmedizin, BG-Klinik Ludwigshafen und Klinikum Ludwigshafen, Ludwigshafen, Germany, June 11, 2016

Fahrzeuge des Rettungsdienstes, Presentation, Kursus zur Erlangung der Zusatzbezeichnung Notfallmedizin, BG-Klinik Ludwigshafen und Klinikum Ludwigshafen, Ludwigshafen, Germany, June 11, 2017

Terror-Anschläge - Lessons learned aus Sicht des Rettungsdienstes und der Kliniken, Presentation, Fortbildungsreihe Anästhesie, Universitätsklinikum Mannheim, Mannheim, Germany, September 14, 2016

Das Projekt EPICSAVE: Vorstellung des aktuellen Entwicklungsstands des Projektes EPICSAVE zur Entwicklung, Implementierung und Erprobung digitaler Medien in der Ausbildung von Notfallsanitätern, Presentation, InSim, Interdisziplinäres Symposium zur Simulation in der Medizin, Deutsche Gesellschaft zur Förderung der Simulation in der Medizin, DGSim, Dresden, Germany, October 14, 2016

Real verfügbare Aufnahmekapazitäten von Kliniken in Rheinland-Pfalz für Patienten mit Polytrauma oder schwerem Schädel-Hirn-Trauma, Presentation, Deutscher Anästhesie Congress, Deut-

sche Gesellschaft für Anästhesiologie und Intensivmedizin, Leipzig, Germany, April 14-16, 2016

Maier, A.:

ReqInspector? Automatische Prüfung der Vollständigkeit von Anforderungsspezifikationen durch semantische Analyse der Valenzrahmen, Conference Presentation, Tag des Systems Engineering, Schäffler AG, Munich, Germany, October 26, 2016

Naab, M.:

Offline-Fähigkeit für mobile Apps - Wie sehr sich Architekten um Daten kümmern müssen, Conference Presentation, OOP, SigsDatacom, Munich, Germany, February 3, 2016

UX in intelligenten Systemen - verhindert oder gerade erst ermöglicht durch Softwarearchitekten?, Conference Presentation, Bitkom UUX, Bitkom, Munich, Germany, February 11, 2016

Who is engineering the software, which is eating the world?, Conference Presentation, Bitkom AK SWA, Bitkom, Frankfurt, Germany, June 7, 2016

Wie finden Softwarearchitekten den Weg zu User Experience? Mit Google Maps!, Conference Presentation, The Architecture Gathering 2016, SigsDatacom, Munich, Germany, October 12, 2016

Modularität: Schon immer gewollt und selten erreicht. Sind Microservices und

Self-Contained Systems der Durchbruch?, Conference Presentation, User Group Softwareentwicklung und Softwarearchitektur, Softwareforen Leipzig, Leipzig, Germany, November 29, 2016

Ochs, M.:
DIGITALISIERUNG - Nutzen und Risiken am Beispiel Personalakte, Invited Talk, 2. Workshop „Digitalisierung im Office Bereich“, IG Metall, Frankfurt, Germany, April 15, 2016

Riegel, N.:
Prioritization in Incremental Requirements Engineering, PhD Defense, University of Kaiserslautern, Kaiserslautern, Germany, January 25, 2016

Rost, D.:
Task-Specific Architecture Documentation for Developers - Why Separation of Concerns in Architecture Documentation is Counterproductive for Developers, Conference Presentation, 10th European Conference on Software Architecture, University of Copenhagen, Copenhagen, Denmark, November 28 - December 2, 2016

Rudolph, M.:
Usable Security Policy Specification, Conference Presentation 2016, Mensch und Computer 2016, Workshop: Usable Security and Privacy, Gesellschaft für Informatik e.V., Aachen, Germany, September 4, 2016

A Framework for Generating User- and Domain-Tailored Security Policy Editors, Conference Presentation, RE 16, Workshop on Evolving Security and Privacy Requirements Engineering, Peking University, Beijing, China, September 12, 2016

Requirements Elicitation & Derivation of Security Policy Templates, Conference Presentation, RE 16, Peking University, Beijing, China, September 15, 2016

Schmitt, A.:
Why do we do Software Process Improvement?, Conference Presentation, Conference on Product-Focused Software Process Improvement (PROFES), NTNU, Trondheim, Norway, November 24, 2016

Schneider, D.:
Safety meets Security:Trends, Challenges and Research Directions, Conference Presentation, Safety meets Security, Hanser / Fraunhofer IESE, Kaiserslautern, Germany, March 2, 2016

Offene und vernetzte Systeme - Safety trifft Security, Conference Presentation, ASQF-Safety and Security Day Rhein-Main, ASQF Flörsheim/Main, Germany, September 16, 2016

Safety in Open Systems: Trends, Challenges and Research Directions, Invited Presentation, SafeCop project meeting, SafeCop Project, Copenhagen, Denmark, November 14, 2016

Schwarz, R.:
Datensicherheit und Datenschutz bei medizinischer Software und vernetzten Medizin-Systemen, Presentation, 9. medical.device.forum, TÜV Süd, Munich, Germany, March 16, 2016

Trapp, Marcus:
Digitale Dörfer im Wirtschaftswunderland, Presentation, Neujahrsgespräch der Verbandsgemeinde Prüm, Verbandsgemeinde Prüm, Prüm, Germany, January 14, 2016

User Experience von intelligenten Systemen - verhindert oder gerade erst ermöglicht durch Softwarearchitekten?, Presentation, Bitkom FA Usability & User Experience (UUX), BITKOM, Hamburg, Germany, February 11, 2016

UX made of STEAL - Woher nehmen, wenn nicht stehlen? Anregungen zur kreativen Beschaffung von UX Ideen Presentation, u-Conference „Arrabiata Solutions GmbH n Kooperation mit: FOM Hochschule, Institute of Management & Information Systems (mis)“, Munich, Germany, February 18, 2016

Wirtschaftswunderland, Presentation, Jahresversammlung der VSVI Bezirksgruppe Kaiserslautern, VSVI Bezirksgruppe Kaiserslautern, Kaiserslautern, Germany, April 20, 2016

Was würde Dr. House tun? Presentation, Auftaktveranstaltung des Führungsnachwuchsprogramms der

Bayerischen Akademie für Verwaltungs-Management Bayerische Akademie für Verwaltungs-Management, Munich, Germany, April 22, 2016

Who is engineering the Software, which is eating the world?, Presentation, BITKOM, Arbeitskreis Software Architektur, BITKOM, Frankfurt/Main, Germany, June 6, 2016

Digitale Dörfer im Wirtschaftswunderland, Presentation, Denkraum Digitale Transformation, Szenariendenkraum „Digital näher zusammen? Denkraum München, Munich, Germany, July 5, 2016

Digitale Dörfer im Wirtschaftswunderland, Presentation, LEADER-Forum „Eifel-Ardennen“, Zukunftsinitiative Eifel, Daun, Germany, September 14, 2016

Wie finden Softwarearchitekten den Weg zu User Experience? Mit Google Maps! Presentation, The Architecture Gathering, International Software Architecture Qualification Board, Munich, Germany, October 12-13, 2016

Wir müssen reden! Presentation, UX Day, Kuehlhaus AG und Hochschule Mannheim, Mannheim, Germany, October 13, 2016

Mit der Digitalisierung zum Wirtschaftswunderland, Presentation, Digital Day at MOCO 2016, MOCO 2016, Bolzano, Italy, October 25, 2016

Power-on UX, Presentation, SOPHIST Days 2016, SOPHIST GmbH, Nuremberg, Germany, October 18 - 19, 2016

Trapp, Mario:

Digitale Technologien für den ländlichen/nicht-urbanen Raum, Vorstellung und Impulsstatement, CSE Think Tank Kick-Off, Deutsches Zentrum für Luft- und Raumfahrt e. V. , Braunschweig, Germany, January 14, 2016

Digitale Dörfer: Chancen der Digitalisierung im ländlichen Raum, Presentation, Landesregierung Autonome Provinz Bozen - Südtirol, Bolzano, Italy, January 21, 2016

Assuring Functional Safety in Open Systems of Systems, Habilitation Presentation, University of Kaiserslautern, Kaiserslautern, Germany, February 3, 2016

Smart Farming – Von Daten alleine wird der Mensch nicht satt, Presentation, Kongress zur Digitalisierung in der Landwirtschaft - Fachtagung: Landwirtschaft 4.0 oder Big Data?, Bundesministerium für Ernährung und Landwirtschaft, Berlin, Germany, February 18, 2016

Land mit Digitaler Zukunft, Presentation, CeBIT, Hanover, Germany, March 16, 2016

Industrie 4.0, Presentation, Deutscher Städtetag, Heidelberg, Germany, April 14, 2016

Cyber Physical Systems as a Basis for Industrie 4.0, Presentation, Fraunhofer Ta-

gungsreihe Green Technology Made in Germany, Fraunhofer Gesellschaft, Tokyo, Japan, April 17-20, 2016

SRA – Das Landleben von Morgen, Presentation, Fachtagung Electronic-Banking des SVRPSparkassenverband Rheinland-Pfalz, Budenheim, Schloss Waldthausen, Germany, May 2, 2016

Presentation, NEUE Zeit – NEUE Agenda, Bauernbund – Zukunftsbund , Vienna, Austria, May 9, 2016

Smart Ecosystems als Chance für Wirtschaft und Bevölkerung, Presentation, Kongress der Bayerischen Wirtschaftsförderung, Bayerisches Staatsministerium für Wirtschaft, Pöttmes, Gut Sedlbrunn, Germany, June 30, 2016

Smarte Technologien querfeldein gedacht, Presentation Smart Villages, BITKOM Akademie, Dillenburg, Germany, July 6, 2016

Strategies for Smart Ecosystems, Workshop, University of Columbia and Clemson University, SC, Columbia, SC, USA, July 26, 2016

Digitalisierung auf kommunaler Ebene, Fachgespräch, Bundestag, Berlin, Germany, October 19, 2016

Industrie 4.0 – Irrungen, Wirrungen und noch verpasste Chancen, Seminar, Fachforum Wirtschaftswissenschaften, Hanns-Seidel-Stiftung, Kloster Banz, Germany, October 21, 2016

Von Digitalen Dörfern und Smarten Regionen, Presentation, Stadt der Zukunft – Zukunft der Stadt, Stuttgarter Zeitung, Stuttgart, Germany, October 27, 2016

Digitalisierung der Kommune, Presentation, Jahrestagung der Deutschen Wirtschaftsförderer, Berlin, Germany, November 17-18, 2016

Villela, K.:

Achievements and Impact of the RESCUER Project, Workshop Presentation, Workshop on EU-Brazil Coordinated Calls in the area of ICT, European Commission Brussels, Belgium, November 10, 2016

Webel, C.:

Tool supported architecture modelling, Industry Presentation, DEU-FRA Architekturgespräche, BAAINBw, Koblenz, Germany, March 29, 2016

ReqInspector? Automatische Prüfung der Vollständigkeit von Anforderungsspezifikationen durch semantische Analyse der Valenzrahmen, Conference Presentation, Tag des Systems Engineering, Schäffler AG, Munich, Germany, October 26, 2016

EAsyNAF – Ein Framework zur kollaborativen Modellierung operationeller Architekturen, Conference Presentation, Tag des Systems Engineering, Schäffler AG, Munich, Germany, Oct 26, 2016

EAsyNAF & Concepts to Architectures, Industry Presentation, BAAINBw/PIgABw - AG Architektur, BAAINBw, Koblenz, Germany, November 8, 2016

Zhang, B.:

Variability Mechanisms and Lessons Learned in Practice, Conference Presentation, VACE 2016, University of Texas, Austin, Texas, USA, May 15, 2016

Android Build Dependency Analysis, Conference Presentation, ICPC 2016, University of Texas, Austin, Texas, USA, May 17, 2016

Supporting Product Configuration in Application Engineering Using EXConfig, Conference Presentation, SPLC 2016, Peking University, Beijing, China, September 23, 2016

SCIENTIFIC CONTRIBUTIONS²

BOOKS

Knodel, Jens ; Naab, Matthias:
Pragmatic Evaluation of Software Architectures.
Cham: Springer International Publishing, 2016. (The Fraunhofer IESE Series on Software and Systems Engineering).
DOI 10.1007/978-3-319-34177-4
ISSN 2193-8202
ISBN 978-3-319-34177-4

ARTICLES IN BOOKS

Lindvall, Mikael; **Becker, Martin; Tenev, Vasil; Duszynski, Slawomir;** Hinchey, Mike:
Good Change and Bad Change: An Analysis Perspective on Software Evolution.
In: Steffen, Berndhard (Ed.): Transactions on Foundations for Mastering Change I. Cham: Springer International Publishing, 2016, 90-112 (Lecture Notes in Computer Science 9960).
DOI 10.1007/978-3-319-46508-1_6

Diebold, Philipp; Zehler, Thomas:
The Right Degree of Agility in Rich Processes.
In: Kuhrmann, Marco (Ed.) Münch, Jürgen (Ed.); Richardson, Ita (Ed.); Rausch, Andreas (Ed.); Zhang, He (Ed.): Managing Software Process Evolution : Traditional, Agile and Beyond - How to Handle Process Change.
Cham: Springer International Publishing, 2016, 15-37.
DOI 10.1007/978-3-319-31545-4_2

ARTICLES IN JOURNALS

Diebold, Philipp; Schmitt, Anna; Zehler, Thomas:
Agile Potenzialanalyse: Der Weg zum passenden Grad an Agilität.
In: OBJEKTSpektrum. (2016), Sonderheft Agilität, 4 S.

Holl, Konstantin; Vieira, Vaninha; Faria, Igor:
An Approach for Evaluating and Improving the Test Processes of Mobile Application Developments.
In: Procedia Computer Science. 94 (2016), 33-40.
DOI 10.1016/j.procs.2016.08.009

Steinebach, Martin; Krempel, Erik; **Jung, Christian;** Hoffmann, Mario:
Datenschutz und Datenanalyse: Herausforderungen und Lösungsansätze.
In: Datenschutz und Datensicherheit: DuD. 40 (2016), 7, 440-445.
DOI 10.1007/s11623-016-0633-7

Hattink, B.J.J.; Meiland, F.J.M.; Overmars-Marx, T.; Boer, M.E. de; Ebben, P.W.G.; Blanken, M. van; Verhaeghe, S.; Stalpers-Croeze, Ir.I.N.M.; **Jedlitschka, Andreas;** Flick, Simone; Leeuw, J. v/d; Karkowski, I.P.; Dröes, R. M.:
The electronic, personalizable Rosetta system for dementia care: exploring the user-friendliness, usefulness and impact.
In: Disability and Rehabilitation: Assistive Technology. 11 (2016), 1, 61-71; first published online: 03 Jul 2014.
DOI 10.3109/17483107.2014.932022

Antonino, Pablo; Morgenstern, Andreas; Kuhn, Thomas:
Embedded Software Architects: It's Not Only about the Software.
In: IEEE Software. 33 (2016), 6, 56-62:
DOI 10.1109/MS.2016.142

Heidrich, Jens; Trendowicz, Adam; Ebert, Christof:
Exploiting Big Data's Benefits.
In: IEEE Software. 33 (2016), 4, 111-116.
DOI 10.1109/MS.2016.99

Simon, Kai; **Moucha, Cornelius:**
Google - das Schweizer Messer zur Verwundbarkeitsanalyse?.
In: Datenschutz und Datensicherheit: DuD. 40 (2016), 5, 318-321.
DOI 10.1007/s11623-016-0604-z

Gayer, Sebastian; Herrmann, Andrea; Keuler, Thorsten; Riebisch, Matthias; **Antonino, Pablo:**
Lightweight Traceability for the Agile Architect.
In: IEEE Computer - Innovative technology for computer professionals. 49 (2016), 5, 64-71. - DOI 10.1109/MC.2016.150

Knodel, Jens; Naab, Matthias:
Maintainability is a Versatile Quality Attribute.
In: Softwaretechnik-Trends. 36 (2016), 2, 27-28.

Rost, Dominik; Maier, Andreas:
Messbar mehr Qualität: Optimierte Agilität durch Best Practices.
In: Entwickler Magazin. (2016), 3.

Kalmar, Ralf; Schneider, Daniel; Küfen, Jörg; Barkow, Axel:
Nutzfahrzeug-Roadmap 2030 Schritte zu neuen System- und Softwarearchitekturen.
In: ATZextra. 21 (2016), Supplement 8, 10-15.
DOI 10.1007/s35778-016-0019-3

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

Braun, Susanne; Carbon, Ralf; **Naab, Matthias:**

Piloting a Mobile-App Ecosystem for Smart Farming.
In: IEEE Software. 33 (2016), 4, 9-14.
DOI 10.1109/MS.2016.98

Hunsen, Claus; **Zhang, Bo;** Siegmund, Janet; Kästner, Christian; Leßenich, Olaf; **Becker, Martin;** Apel, Sven:
Preprocessor-based variability in open-source and industrial software systems: An empirical study.
In: Empirical Software Engineering. 21 (2016), 2, 449-482; first published online: 14 April 2015.
DOI 10.1007/s10664-015-9360-1

Zanardini, Damiano; Albert, Elvira; **Vil-lela, Karina:**
Resource-usage-aware configuration in software product lines.
In: Journal of Logical and Algebraic Methods in Programming. 85 (2016), 1, Part 2, 173-199; first published online: 29 Aug 2015.
DOI 10.1016/j.jlamp.2015.08.003

Kuhrmann, Marco; **Diebold, Philipp;** Münch, Jürgen:
Software process improvement: a systematic mapping study on the state of the art.
In: PeerJ Computer Science. (2016), 38 S.
DOI 10.7717/peerj-cs.62

Verwey, Willem B.; **Groen, Eduard C.;** Wright, David L.:
The stuff that motor chunks are made of: Spatial instead of motor representations?
In: Experimental Brain Research. 234 (2016), 2, 353-366; First Published Online: 20 Oct 2015.
DOI 10.1007/s00221-015-4457-8

Holl, Konstantin; Nass, Claudia; Vil-lela, Karina; Vieira, Vaninha:
Towards a Lightweight Approach for On-site Interaction Evaluation of Safety-critical Mobile Systems.
In: Procedia Computer Science. 94 (2016), 41-48.
DOI 10.1016/j.procs.2016.08.010

Simon, Kai; **Moucha, Cornelius:**
Verwundbarkeitsprüfungen mit Shodan.
In: Datenschutz und Datensicherheit: DuD. 40 (2016), 11, 723-728.
DOI 10.1007/s11623-016-0691-x

CONTRIBUTIONS TO CONFERENCE PROCEEDINGS

Zhang, Bo; Tenev, Vasil; Becker, Martin:
Android Build Dependency Analysis.
In: IEEE Computer Society: Proceedings of the 24th IEEE International Conference on Program Comprehension (ICPC). Los Alamitos: IEEE Computer Society, 2016, 1-4.
DOI 10.1109/ICPC.2016.7503729

Becker, Martin; Zhang, Bo:
Anpassbare Software geschickt umgesetzt?! : Implementierungsmechanismen anpassbarer Software im Vergleich.
In: Tagungsband. Embedded Software Engineering Kongress 2016. 2016, 341-346.

Hellebrand, Robert; Schulze, Michael; **Becker, Martin:**
A Branching Model for Variability-Affected Cyber-Physical Systems.
In: IEEE Computer Society: 3rd International Workshop on Emerging Ideas and Trends in Engineering of Cyber-Physical Systems (EITEC). 2016, 47-52.
DOI 10.1109/EITEC.2016.7503696

Müller, Sebastian; **Liggemeyer, Peter:**
Dynamic Safety Contracts for Functional Cooperation of Automotive Systems.
In: Skavhaug, Amund (Ed.); Guiochet, Jérémie (Ed.); Schoitsch, Erwin (Ed.); Bitsch, Friedemann (Ed.): Computer Safety, Reliability, and Security SAFE-COMP 2016 Workshops: ASSURE, DEC-SoS, SASSUR, and TIPS - Proceedings. Cham: Springer International Publishing, 2016, 171-182. (Lecture Notes in Computer Science 9923).
DOI 10.1007/978-3-319-45480-1_14

- Kläs, Michael; Bauer, Thomas; Dereani, Andreas; Soederqvist, Thomas; Helle, Philipp:**
Effekte modellbasierter Test- und Analyseverfahren in Unternehmen: Ergebnisse einer großangelegten empirischen Evaluation mittels industrieller Fallstudien. In: Knoop, Jens (Hrsg.) ; Zdun, Uwe (Hrsg.) ; Gesellschaft für Informatik (GI): Software Engineering 2016 - Proceedings : Fachtagung des GI-Fachbereichs Softwaretechnik. Bonn: GI - Gesellschaft für Informatik, 2016, 65-66. (GI-Edition - Lecture Notes in Informatics (LNI) - Proceedings Volume P-252).
- Hess, Steffen; Knodel, Jens; Naab, Matthias; Trapp, Marcus:**
Engineering Roles for Constructing Ecosystems. In: The ACM Proceedings of the 10th European Conference on Software Architecture: Workshops (ECSA-W). New York: ACM Press, 2016, Article No. 24, 4 S.
DOI 10.1145/2993412.3003385
- Guzman, Liliana; Steinbach, Silke; Diebold, Philipp; Zehler, Thomas; Schneider, Klaus; Habbe, Matthias:**
Evaluating the Benefits of Systematic Project Management in Large Public Sector Projects. In: Association for Computing Machinery (ACM): 4th International Workshop on Conducting Empirical Studies in Industry. CESI 2016 - Proceedings. New York: ACM Press, 2016, 32-35.
DOI 10.1145/2896839.2896841
- Abukwaik, Hadil; Abujayyab, Mohammed; Humayoun, Shah Rukh; **Rombach, H. Dieter:**
Extracting Conceptual Interoperability Constraints from API Documentation using Machine Learning. In: ICSE '16 Proceedings of the 38th International Conference on Software Engineering Companion. New York: ACM Press, 2016, 701-703.
DOI 10.1145/2889160.2892642
- Kuhrmann, Marco; **Diebold, Philipp; Münch, Jürgen; Tell, Paolo:**
How Does Software Process Improvement Address Global Software Engineering?. In: IEEE Computer Society: 11th IEEE International Conference on Global Software Engineering. ICGSE 2016 - Proceedings. Los Alamitos: IEEE Computer Society, 2016, 89-98.
DOI 10.1109/ICGSE.2016.10
- Tanveer, Binish:**
Hybrid Effort Estimation of Changes in Agile Software Development. In: Sharp, Helen (Ed.); Hall, Tracy (Ed.): Agile Processes in Software Engineering, and Extreme Programming. 17th International Conference, XP 2016 - Proceedings. Cham: Springer, 2016, 316-320. (Lecture Notes in Business Information Processing 251).- DOI 10.1007/978-3-319-33515-5_33
- Liggesmeyer, Peter:**
IoT, Industrie 4.0 und Big Data: Herausforderungen für die Informatik und die GI. In: Mayr, Heinrich C. (Hrsg.); Pinzger, Martin (Ed.); Gesellschaft für Informatik (GI): INFORMATIK 2016 - Proceedings. Bonn: GI - Gesellschaft für Informatik, 2016, 45-46. (GI-Edition - Lecture Notes in Informatics (LNI) - Proceedings Volume P-259).
- Holl, Konstantin; Elberzhager, Frank:**
Mobile Application Quality Assurance: Reading Scenarios as Inspection and Testing Support. In: 42nd Euromicro Conference on Software Engineering and Advanced Applications. SEAA' 2016 - Proceedings. Los Alamitos: IEEE Computer Society, 2016, 245-249.
DOI 10.1109/SEAA.2016.11
- Fang, Miao; Leyh, Georg; **Doerr, Joerg; Elsner, Christoph:**
Multi-Variability Modeling and Realization for Software Derivation in Industrial Automation Management. In: Association for Computing Machinery (ACM): Proceedings of the ACM/IEEE 19th International Conference on Model Driven Engineering Languages and Systems. New York: ACM Press, 2016, 2-12.
DOI 10.1145/2976767.2976804
- Galster, Matthias; Angelov, Samuil; Meesters, Marcel; **Diebold, Philipp:**
A Multiple Case Study on the Architect's Role in Scrum. In: Abrahamsson, Pekka (Ed.); **Jedlitschka, Andreas (Ed.); Anh, Nguyen Duc (Ed.); Felderer, Michael (Ed.); Amasaki, Sousuke (Ed.); Mikkonen, Tommi (Ed.):** 17th International Conference on Product-Focused Software Process Improvement. PROFES'2016 - Proceedings. Cham: Springer International Publishing, 2016, 432-447. (Lecture Notes in Computer Science 10027).
DOI 10.1007/978-3-319-49094-6_29
- Wiedemann Jacobsen, Jan; Kuhrmann, Marco; Münch, Jürgen; **Diebold, Philipp; Felderer, Michael:**
On the Role of Software Quality Management in Software Process Improvement. In: Abrahamsson, Pekka (Ed.); **Jedlitschka, Andreas (Ed.); Anh, Nguyen Duc (Ed.); Felderer, Michael (Ed.); Amasaki, Sousuke (Ed.); Mikkonen, Tommi (Ed.):** 17th International Conference on Product-Focused Software Process Improvement. PROFES'2016 - Proceedings. Cham: Springer International Publishing, 2016, 327-343. (Lecture Notes in Computer Science 10027).
DOI 10.1007/978-3-319-49094-6_21
- Adler, Rasmus Feth, Patrik; Schneider, Daniel:**
Safety Engineering for Autonomous Vehicles. In: IEEE Computer Society: 46th Annual IEEE/IFIP International Conference on De-

pendable Systems and Network Workshops. DSN-W Volume - Proceedings. Los Alamitos: IEEE Computer Society, 2016, 200-205.
DOI 10.1109/DSN-W.2016.30

Feth, Patrik; Adler, Rasmus:
Service-based Modeling of Cyber-Physical Automotive Systems: A Classification of Services.
In: CARS 2016. Critical Automotive applications: Robustness & Safety. 2016, 4 S.

Cioroai, Emilia; Kuhn, Thomas:
Simulator Coupling for Network Fault Injection Testing. In: 9th EUROSIM Congress on Modelling and Simulation. Los Alamitos: IEEE Computer Society, 2016, 641-646.
DOI 10.1109/EUROSIM.2016.160

Oya, I.; Füßling, M.; **Antonino, Pablo;** Conforti, V.; Hagge, L.; Melkumyan, D.; **Morgenstern, Andreas;** Tosti, G.; Schwanke, U.; Schwarz, J.; Wegner, P.; Colome, J.; Lyard, E.:
The software architecture to control the Cherenkov Telescope Array.
In: Chiozzi, Gianluca (Ed.); Guzman, Juan C. (Ed.): Software and Cyberinfrastructure for Astronomy IV. Bellingham : SPIE, 2016, Article No. 991303. (SPIE Proceedings 9913).
DOI 10.1117/12.2232520

Kuhrmann, Marco; Konopka, Claudia; Nellemann, Peter; **Diebold, Philipp; Münch, Jürgen:**
Software Process Improvement: Where is the Evidence?.
In: Knoop, Jens (Hrsg.); Zdun, Uwe (Hrsg.); Gesellschaft für Informatik (GI): Software Engineering 2016 - Proceedings: Fachtagung des GI-Fachbereichs Softwaretechnik. Bonn: GI - Gesellschaft für Informatik, 2016, 55-56. (GI-Edition - Lecture Notes in Informatics (LNI) - Proceedings Volume P-252).

Diebold, Philipp; Scherr, Simon André:

Software Process Models vs. Descriptions: What do Practitioners Use and Need?.
In: Association for Computing Machinery (ACM): International Conference on Software and System Process. ICSSP 2016 - Proceedings. New York: ACM Press, 2016, 66-75.
DOI 10.1145/2904354.2904356

Zhang, Bo; Becker, Martin:
Supporting Product Configuration in Application Engineering Using EXConfig.
In: Mei, Hong (Ed.); Elsner, Christoph (Ed.); Ruiz Cortés, Antonio (Ed.); Wasowski, Andrzej (Ed.); Wei, Jun (Ed.); Zhang, Li (Ed.); Rabiser, Rick (Ed.); Xie, Yun (Ed.); Czarnecki, Krzysztof (Ed.); Peng, Xin (Ed.); Berger, Thorsten (Ed.); Bagheri, Ebrahim (Ed.); Xie, Bing (Ed.); Andersson, Jesper (Ed.); Selic, Bran (Ed.); Simmonds, Jocelyn (Ed.); Siegmund, Norbert (Ed.); Xiong, Yingfei (Ed.); Association for Computing Machinery (ACM): Proceedings of the 20th International Systems and Software Product Line Conference. SPLC 2016. New York: ACM Press, 2016, 324-327.
DOI 10.1145/2934466.2962727

Rost, Dominik; Naab, Matthias:
Task-Specific Architecture Documentation for Developers : Why Separation of Concerns in Architecture Documentation is Counterproductive for Developers.
In: Tekinerdogan, Bedir (Ed.); Zdun, Uwe (Ed.); Babar, Ali (Ed.): Software Architecture. 10th European Conference, ECSA 2016 - Proceedings. Cham: Springer International Publishing, 2016, 102-110. (Lecture Notes in Computer Science 9839).
DOI 10.1007/978-3-319-48992-6_7

Fogdal, Thomas; Scherrebeck, Helene; Kuusela, Juha; **Becker, Martin; Zhang, Bo:**
Ten Years of Product Line Engineering at Danfoss: Lessons Learned and Way

Ahead.
In: Mei, Hong (Ed.); Elsner, Christoph (Ed.); Ruiz Cortés, Antonio (Ed.); Wasowski, Andrzej (Ed.); Wei, Jun (Ed.); Zhang, Li (Ed.); Rabiser, Rick (Ed.); Xie, Yun (Ed.); Czarnecki, Krzysztof (Ed.); Peng, Xin (Ed.); Berger, Thorsten (Ed.); Bagheri, Ebrahim (Ed.); Xie, Bing (Ed.); Andersson, Jesper (Ed.); Selic, Bran (Ed.); Simmonds, Jocelyn (Ed.); Siegmund, Norbert (Ed.); Xiong, Yingfei (Ed.); Association for Computing Machinery (ACM): Proceedings of the 20th International Systems and Software Product Line Conference. SPLC 2016. New York: ACM Press, 2016, 252-261.
DOI 10.1145/2934466.2934491

Knodel, Jens; Manikas, Konstantinos:
Towards Reference Architectures as an Enabler for Software Ecosystems.
In: The ACM Proceedings of the 10th European Conference on Software Architecture: Workshops (ECSA-W). New York: ACM Press, 2016, Article No. 26, 4 S.
DOI 10.1145/2993412.3004844

Abukwaik, Hadil; Abujayyab, Mohammed; **Rombach, H. Dieter:**
Towards Seamless Analysis of Software Interoperability: Automatic Identification of Conceptual Constraints in API Documentation.
In: Tekinerdogan, Bedir (Ed.); Zdun, Uwe (Ed.); Babar, Ali (Ed.): Software Architecture. 10th European Conference, ECSA 2016 - Proceedings. Cham: Springer International Publishing, 2016, 67-83. (Lecture Notes in Computer Science 9839).
DOI 10.1007/978-3-319-48992-6_5

Tanveer, Binish; Guzman, Liliana; Engel, Ulf Martin:
Understanding and improving effort estimation in agile software development - an industrial case study.
In: Association for Computing Machinery (ACM): International Conference on Software and System Process. ICSSP

2016 - Proceedings. New York: ACM Press, 2016, 41-50.
DOI 10.1145/2904354.2904373

Zhang, Bo; Duszynski, Slawomir; Becker, Martin:

Variability Mechanisms and Lessons Learned in Practice.

In: Association for Computing Machinery (ACM): 1st International Workshop on Variability and Complexity in Software Design. VACE 2016 - Proceedings. New York: ACM Press, 2016, 14-20.
DOI 10.1145/2897045.2897048

Jabbari, Ramtin; bin Ali, Nauman; Petersen, Kai; **Tanveer, Binish:**
What is DevOps? A Systematic Mapping Study on Definitions and Practices.
In: Association for Computing Machinery (ACM): Proceedings of the XP2016 Scientific Workshops. New York: ACM Press, 2016, Article No. 12, 11 S.
DOI 10.1145/2962695.2962707

Schmitt, Anna; Diebold, Philipp:
Why Do We Do Software Process Improvement?: Study on Commonly Used Goals in Practice.

In: Abrahamsson, Pekka (Ed.); **Jedlitschka, Andreas (Ed.);** Anh, Nguyen Duc (Ed.); Felderer, Michael (Ed.); Amasaki, Sousuke (Ed.); Mikkonen, Tommi (Ed.): 17th International Conference on Product-Focused Software Process Improvement. PROFES'2016 - Proceedings. Cham: Springer International Publishing, 2016, 360-367. (Lecture Notes in Computer Science 10027).
DOI 10.1007/978-3-319-49094-6_23

PROCEEDINGS BY EDITORS

Abrahamsson, Pekka (Ed.); **Jedlitschka, Andreas (Ed.);** Anh, Nguyen Duc (Ed.); Felderer, Michael (Ed.); Amasaki, Sousuke (Ed.); Mikkonen, Tommi (Ed.):

17th International Conference on Product-Focused Software Process Improvement. PROFES'2016 - Proceedings. Cham: Springer International Publishing, 2016. (Lecture Notes in Computer Science; 10027).
eISBN 978-3-319-49094-6
DOI 10.1007/978-3-319-49094-6
ISSN 1611-3349

FRAUNHOFER IESE REPORTS

Zhang, Bo; Tenev, Vasil; Becker, Martin:

Android Build Dependency Analysis. Kaiserslautern, 2016. (IESE-Report; 011.16/E). - Report no. 011.16/E

Holl, Konstantin; Vieira, Vaninha; Faria, Igor:

An Approach for Evaluating and Improving the Test Processes of Mobile Application Developments. Kaiserslautern, 2016. (IESE-Report; 030.16/E). - Report no. 030.16/E

Jung, Christian; Feth, Denis:

Context-aware Mobile Security : Experimental Validation of Reliable and Secure Context Detection. Kaiserslautern, 2016. (IESE-Report; 019.16/E). - Report no. 019.16/E

Steinebach, Martin; Krempel, Erik; **Jung, Christian; Hoffmann, Mario:**

Datenschutz und Datenanalyse : Herausforderungen und Lösungsansätze. Kaiserslautern, 2016. (IESE-Report; 020.16/D). - Report no. 020.16/D

Koch, Matthias; Hess, Steffen; Hess, Anne; Magin, Dominik Pascal:

Digitale Innovationen von Bürgern für Bürger - Design Thinking oder Citizen Science? Kaiserslautern, 2016. (IESE-Report; 029.16/D). - Report no. 029.16/D

Guzman, Liliana; Steinbach, Silke; Diebold, Philipp; Zehler, Thomas; Schneider, Klaus; Habbe, Matthias:
Evaluating the Benefits of Systematic Project Management in Large Public Sector Projects. Kaiserslautern, 2016. (IESE-Report; 007.16/E). - Report no. 007.16/E

Rudolph, Manuel; Moucha, Cornelius; Feth, Denis:

A Framework for Generating User- and Domain-Tailored Security Policy Editors. Kaiserslautern, 2016. (IESE-Report; 045.16/E). - Report no. 045.16/E

Elberzhager, Frank; Arif, Taslim; Naab, Matthias; Süß, Inge; Koban, Sener:

From Agile Development to DevOps: Going towards Faster Releases at High Quality - Experiences from an Industrial Context. Kaiserslautern, 2016. (IESE-Report; 050.16/E). - Report no. 050.16/E

Groen, Eduard C.; Koch, Matthias:

How Requirements Engineering can benefit from crowds. Kaiserslautern, 2016. (IESE-Report; 039.16/E). - Report no. 039.16/E

Jung, Christian:

Industrie 4.0: Wie Unternehmen ihre Daten heute sichern. Kaiserslautern, 2016. (IESE-Report; 017.16/D). - Report no. 017.16/D

Holl, Konstantin; Müller, Christian;

Liggesmeyer, Peter; Ebert, Achim:
Interaction with Mobile Systems as part of Smart Ecosystems. Kaiserslautern, 2016. (IESE-Report; 033.16/D). - Report no. 033.16/D

Schwarz, Reinhard; Jung, Christian:

Komfort ohne Zusatzrisiko. Kaiserslautern, 2016. (IESE-Report; 018.16/D). - Report no. 018.16/D

Holl, Konstantin; Elberzhager, Frank: Mobile Application Quality Assurance: Reading Scenarios as Inspection and Testing Support. Authors. Kaiserslautern, 2016. (IESE-Report; 034.16/E). - Report no. 034.16/E

Holl, Konstantin; Elberzhager, Frank; Tamanini, Christian: Optimization of Mobile Applications through a Feedback-based Quality Assurance Approach. Kaiserslautern, 2016. (IESE-Report; 053.16/E). - Report no. 053.16/E

Zakrzewski, Sophie; **Rombach, H. Dieter (Supervisor); Weitzel, Balthasar (Supervisor):** An Overview of Mechanisms for Improving Software Architecture Understandability. Kaiserslautern, 2016. (IESE-Report; 002.16/E). (Zugl.: Kaiserslautern, TU, Bachelorarbeit, 2015). - Report no. 002.16/E

Braun, Susanne; Carbon, Ralf; **Naab, Matthias:** Piloting a Mobile-App Ecosystem for Smart Farming. Kaiserslautern, 2016. (IESE-Report; 003.16/E). - Report no. 003.16/E

Diebold, Philipp; Zehler, Thomas; Schmitt, Anna; Simon, Frank; Kruse, Birger: Prozessverbesserung durch Fragmentierte Anwendung von Scrum & Co.. Kaiserslautern, 2016. (IESE-Report; 043.16/D). - Report no. 043.16/D

Holl, Konstantin; Elberzhager, Frank: Quality Assurance of Mobile Applications: A Systematic Mapping Study. Kaiserslautern, 2016. (IESE-Report; 052.16/E). - Report no. 052.16/E

Kläs, Michael; Putz, Wolfgang; Lutz, Tobias: Quality Evaluation for Big Data : A Scal-

able Assessment Approach and First Evaluation Results. Kaiserslautern, 2016. (IESE-Report; 028.16/E). - Report no. 028.16/E

Rudolph, Manuel; Feth, Denis; Doerr, Joerg; Spilker, Joerg: Requirements Elicitation and Derivation of Security Policy Templates - An Industrial Case Study. Kaiserslautern, 2016. (IESE-Report; 044.16/E). - Report no. 044.16/E

Zhang, Bo; Becker, Martin: Supporting Product Configuration in Application Engineering Using EXConfig. Kaiserslautern, 2016. (IESE-Report; 016.16/E). - Report no. 016.16/E

Fogdal, Thomas; Scherrebeck, Helene; Kuusela, Juha; **Becker, Martin;** Zhang, Bo: Ten Years of Product Line Engineering at Danfoss: Lessons Learned and Way Ahead. Kaiserslautern, 2016. (IESE-Report; 014.16/E). - Report no. 014.16/E

Holl, Konstantin; Nass, Claudia; Vilela, Karina; Vieira, Vaninha: Towards a Lightweight Approach for On-site Interaction Evaluation of Safety-critical Mobile Systems. Kaiserslautern, 2016. (IESE-Report; 031.16/E). - Report no. 031.16/E

Velasco, David S.: Towards proper tool support for component-oriented and model-based development of safety critical systems. Kaiserslautern, 2016. (IESE-Report; 010.16/E). - Report no. 010.16/E

Rudolph, Manuel; Feth, Denis: Usable Security Policy Specification. Kaiserslautern, 2016. (IESE-Report; 046.16/E). - Report no. 046.16/E

Zhang, Bo; Duszynski, Slawomir; Becker, Martin: Variability Mechanisms and Lessons Learned in Practice. Kaiserslautern, 2016. (IESE-Report; 006.16/E). - Report no. 006.16/E

DOCTORAL THESES

Kläs, Michael: HyDEEP: Transparent Combination of Measurement and Expert Data for Defect Prediction. Stuttgart: Fraunhofer Verlag, 2016. (PhD Theses in Experimental Software Engineering; Vol. 57). (Zugl.: Kaiserslautern, Techn. Univ., Diss., 2017). ISBN 978-3-8396-1149-4

Bauer, Thomas: Enabling Functional Integration Testing by Using Heterogeneous Models. Stuttgart: Fraunhofer Verlag, 2016. (PhD Theses in Experimental Software Engineering; Vol. 56). (Zugl.: Kaiserslautern, Techn. Univ., Diss., 2016). ISBN 978-3-8396-1118-0

Antonino, Pablo: Improving the Consistency and Completeness of Safety Requirements Specifications. Stuttgart: Fraunhofer Verlag, 2016. (PhD Theses in Experimental Software Engineering; Vol. 55). (Zugl.: Kaiserslautern, Techn. Univ., Diss., 2016). ISBN 978-3-8396-1059-6

Riegel, Norman: Prioritization in Incremental Requirements Engineering. Stuttgart: Fraunhofer Verlag, 2016. (PhD Theses in Experimental Software Engineering; Vol. 54). (Zugl.: Kaiserslautern, Techn. Univ., Diss., 2016). ISBN 978-3-8396-0992-7

AWARDS

MASTER'S THESES

Mentl, Sven; **Rombach, H. Dieter (Supervisor)**; **Knodel, Jens (Supervisor)**: Analysis of Architectural Principles of Successful Software Ecosystems. Kaiserslautern, 2016. (Kaiserslautern, Techn. Univ., Masterarbeit, 2016).

Ihrig, Benjamin; Knauber, Peter (Supervisor); **Knodel, Jens (Supervisor)**: Design und Entwicklung eines Sicherheitskonzepts für eine Handelsplattform für Speicherpotentiale in Stromnetzen. Kaiserslautern, 2016. (Mannheim, Hochschule, Masterarbeit, 2016).

Rudloff, Patrick; Knauber, Peter (Supervisor); **Knodel, Jens (Supervisor)**: Gütekriterien für Architekturmodelle. (Mannheim, Hochschule, Masterarbeit, 2016). Kaiserslautern, 2016.

Sedlmeier, Maximilian; Keller, Jörg (Supervisor); Kubek, Mario (Supervisor); Simon, Kai (Supervisor); **Schwarz, Reinhard (Supervisor)**: Klassifizierung und Evaluation verschiedener Datensammler zur Schwachstellenermittlung. Kaiserslautern, 2016. (Hagen, Fernuniv., Masterarbeit, 2016).

INTERNAL AWARDS

Markus Damm
IESE Award 2016

Philipp Diebold
IESE Award 2016

Jens Knodel
IESE Award 2016

Matthias Koch
ESE Award 2016

Matthias Naab
IESE Award 2016

Patrick Steil
IESE Award 2016

Balthasar Weitzel
IESE Award 2016

Ilona Würtz
IESE Award 2016

EXTERNAL AWARDS

Vasil Tenev V. / Slawomir Duszynski: Best Poster Paper Award; 20th IEEE International Conference on Program Comprehension (ICPC 2012) Passau, Germany, June 2016

Jörg Dörr
Bester Dozent TU Kaiserslautern, Fachschaft Informatik, University of Kaiserslautern, Kaiserslautern, Germany, 2016

APPOINTMENTS AND HONORS

Mario Trapp
Habilitation "Assuring Functional Safety in Open Systems of Systems" Computer Science Department, University of Kaiserslautern, Kaiserslautern, Germany, February 2016

Mario Trapp
Vintage Class, Fraunhofer-Gesellschaft, Munich, Germany, June 2016

