

# ANNUAL REPORT 2014/2015

## APPENDIX NAMES, FACTS, EVENTS



**Zukunft  
Land**

smart  
logistics

smart  
economy

smart  
health

smart  
trade

smart  
energy

smart  
mobility

smart  
work

smart  
farming





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# NETWORK IN SCIENCE AND INDUSTRY

## INDUSTRIAL PARTNERS<sup>1</sup>

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

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

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



## **INTERNATIONAL RESEARCH PARTNERS**

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

## **INTERNATIONAL SOFTWARE ENGINEERING NETWORK (ISERN)**

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

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

## VISITORS HOSTED

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

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

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

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

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

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

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

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

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

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

# PROFESSIONAL CONTRIBUTIONS

## LECTURING ASSIGNMENTS

### Adam, S.:

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

### Becker, M.:

Seminar  
Variantenmanagement  
software-intensiver Systeme,  
Fraunhofer Academy  
October 2014

### Bomarius, F.:

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

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

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

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

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

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

### Doerr, J.:

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

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

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

### Duszynski, S.:

Seminar  
Variantenmanagement  
software-intensiver Systeme,  
Fraunhofer Academy  
October 2014

### Goepfert, B.:

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

### Heidrich, J.:

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

### Knodel, J.:

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

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

### Liggismeyer, P.:

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

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

### Putz, W.:

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

### Rombach, D.:

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

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

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

### Schaefer, S.:

Seminar  
Variantenmanagement  
software-intensiver Systeme,  
Fraunhofer Academy  
October 2014

### Simon, K.:

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



## EDITORIAL BOARDS

**Bomarius, F.:**

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

**Dörr, J.:**

Journal Reviewer, Business & Information Systems Engineering, since 2010

Journal Reviewer, Requirements Engineering Journal, since 2011

Journal Reviewer, The Computer Journal, since 2011

Journal Reviewer, Information and Software Technology Journal, since 2012

Journal Reviewer, Empirical Software Engineering Journal, since 2012

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

Journal Reviewer, IEEE Software

**Elberzhager, F.:**

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

**Klaus, A.:**

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

**Knodel, J.:**

Journal Reviewer, IEEE Software, since 2010

Journal Reviewer, IEEE Transactions on Software Engineering, since 2008

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

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

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

**Liggemeyer, P.:**

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

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

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

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

Member, Editorial Board, Informatik-Spektrum, since 2012

**Luiz, T.:**

Coordinating Editor, Medizinische Gefahrenabwehr, since 2009

Journal Reviewer, Der Anästhesist, since 2010

Journal Reviewer, Notfall und Rettungsmedizin, since 2010

Member, Editorial Board, Notfall und Rettungsmedizin, since 2013

**Rombach D.:**

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

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

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

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

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

**Schwarz, R.:**

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

**Trapp, Mario.:**

Journal Reviewer, IEEE Transactions on Software Engineering, since 2008

Journal Reviewer, Elsevier Journal on Systems and Soft-

ware, since 2010

Journal Reviewer, IEEE Software, since 2010

Journal Reviewer, IEEE Transactions on Reliability, since 2010

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

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

**Trendowicz, A.:**

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

## COMMITTEE ACTIVITIES

### Adam, S.:

PC Member, CREARE Workshop, Essen  
April 7, 2014

### Dörr, J.:

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

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

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

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

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

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

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

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

### Elberzhager, F.:

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

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

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

### Heidrich, J.:

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

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

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

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

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

### Liggismeyer P.:

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

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

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

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

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

### Klās, M.:

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

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

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

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

### Klaus, A.:

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

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

### Knodel, J.:

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

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

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

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

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

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

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

PC Member, 23<sup>rd</sup> IEEE International Conference on Program Comprehension (ICPC 2015)

Florence, Italy  
May 18-19, 2015

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## SCIENTIFIC AND TECHNOLOGICAL ADVISORY BOARDS

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

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

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

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

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

Member, Steering Committee, Gesellschaft für Informatik, since 2009

Member, Fraunhofer Allianz Embedded Systems since 2010

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

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

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

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

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

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

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

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

Chair, IEEE Harlan D. Mills Award, since 2009

Chair, SEI Process Achievement Award, USA since 2009

Member, Advisory Board, fortiss, Munich since 2009

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

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

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

## MEMBERSHIPS IN INDUSTRIAL ADVISORY BOARDS

### Rombach, D.:

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

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

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

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

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

### Schwarz, R.:

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

## MEMBERSHIPS IN PROFESSIONAL ASSOCIATIONS

AAL-Allianz

Access SOS Emergency

ACL – Association for Computational Linguistics

ACM – Association of Computing Machinery

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

AMS – American Mathematical Society

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

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

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

CAST e.V.

CVC – Commercial Vehicle Cluster

DASMA – German Software Metrics and Effort Estimation Association

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

DIN – Deutsches Institut für Normung

Förderverein Informatik TU KL/FIT

Fraunhofer Academy

Freundeskreis TU KL

GC UPA – German Chapter of the Usability Professionals' Association

GDM – Gesellschaft für Didaktik der Mathematik

German UPA - Arbeitskreis User Research

GFaI – Gesellschaft zur Förderung angewandter Informatik e.V.

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

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

idw – Informationsdienst Wissenschaft

IEEE – Institute of Electrical and Electronic Engineers

Indian Institute of Science - Advisory Council

IMA – Institute of Mathematics and its Application

ISQI (Weit e.V.)

ISSECO – International Secure Software Engineering Council

IuK – Fraunhofer Information and Communication Group

LAP – Liberty Alliance Project

MedTech Pharma

NEGZ – Nationales E-Government Kompetenzzentrum

OMG – Object Management Group

SafeTRANS – Safety in Transportation Systems

Science Alliance Kaiserslautern e.V.

STI – Software Technologie Initiative e.V.

Tekom – Fachverband für technische Kommunikation und Dokumentation

Uni-KiTA

VDMA – Arbeitskreis Mobile Apps & Co.

VDR – Verband Deutsches Reisemanagement e.V.

Softwareforen Leipzig GmbH

XING AG



## KEYNOTES

**Elrakaiby, Y.:**

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

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

**Knodel, J.:**

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

**Liggesmeyer, P.**

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

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

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

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

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

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

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

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

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

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

**Rombach, D.:**

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

**Trapp, M.:**

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

## PRESENTATIONS

**Adam, S.:**

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

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

**Adler, R.:**

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

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

**Diebold, P.:**

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

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

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

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

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

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

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

**Dörr, J.:**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Data Usage Control with the IND<sup>2</sup>UCE Framework, Invited lecture, Bits That Byte, FH Burgenland, Eisenstadt, Austria  
September 26, 2014

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



# SCIENTIFIC CONTRIBUTIONS<sup>2</sup>

## BOOKS

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

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

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

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

## ARTICLES IN BOOKS

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

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

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

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

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

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

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

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

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

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

## ARTICLES IN JOURNALS

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

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

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

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

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

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

**Schneider, Daniel**; Armengaud, Eric; Schoitsch, Erwin; Hufeld, Knut:  
EMC<sup>2</sup> AIPP. ARTEMIS CALL 2013. In: Artemis Magazine. (2014), 17, 22-23.

**Kuhn, Thomas**; **Kalmar, Ralf**:  
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**Zhang, Bo; Becker, Martin:**

Variability Realization Improvement of Software Product Lines.

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

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

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

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Conditional Safety Certification for Open Adaptive Systems.

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**Zimmer, Bastian:**

Efficiently Deploying Safety-Critical Applications onto Open Integrated Architectures.

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

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

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

An Approach for Technology Potential Analysis in Organizations.

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

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

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

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

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

Development of an Application for Autonomous Outdoor Navigation Using ROS.

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

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

Live Monitoring of Software Ecosystems.

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

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

Schwachstellenanalyse mittels klassischer Internet-Suchmaschinen.

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

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

Virtual Validation of Automotive Software Intensive Systems.

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

# AWARDS

## INTERNAL AWARDS

**Michael Deynet**  
The Fraunhofer IESE Award  
2014 for Project Excellence

**Denis Feth**  
The Fraunhofer IESE Award  
2014 for Project Excellence

**Christian Jung**  
The Fraunhofer IESE Award  
2014 for Project Excellence

**Cornelius Moucha**  
The Fraunhofer IESE Award  
2014 for Project Excellence

**Manuel Rudolph**  
The Fraunhofer IESE Award  
2014 for Project Excellence

**Sebastian Adam**  
The Fraunhofer IESE Award  
2014 for Empirical Excellence

**Norman Riegel**  
The Fraunhofer IESE Award  
2014 for Empirical Excellence

**Daniel Schneider**  
The Fraunhofer IESE Award  
2014 for Doctoral Thesis  
Excellence

**Patrik Feth**  
The Fraunhofer IESE Award  
2014 for Master Thesis  
Excellence

**Jan Reich**  
The Fraunhofer IESE Award  
2014 for Bachelor Thesis  
Excellence

**Annalena Billenstein**  
The Fraunhofer IESE Award  
2014 for Excellence in  
Apprenticeship

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

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

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

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

## EXTERNAL AWARDS

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

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

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

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

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

