

# PUBLICATIONS | DR. THORSTEN WEYER

## Journal Articles

1. Weyer, T.; Daun, M.; Tenbergen, B.: **The Changing World and the Adapting Machine: How Digital Transformation Changes Requirements Engineering in the Embedded and Cyber-Physical Systems Industry.** IEEE Software, IEEE Computer Society, November 2020. **IF 2.589** (Early Access)
2. Brings, J.; Daun, M.; Pohl, K.: **Analyzing goal variability in cyber-physical system networks.** SIGAPP Applied Computing Reviews **20**(2) ACM, 2020, 19-35.
3. Brings, J.; Daun, M.; Keller, K.; Aluko Obe, P.; Weyer, T.: **A systematic map on verification and validation of emergent behavior in software engineering research.** Future Generation Computer Systems (FGCS) 112:1010-1037, Elsevier, 2020. **IF 6.125**
4. Tenbergen, B.; Weyer, T.: **Generation of Hazard Relation Diagrams: Formalization and Tool Support.** Software and Systems Modeling (SoSyM), Springer, 2020. **IF 1.915** (Online First).
5. Bandyzsak, T.; Daun, M.; Tenbergen, B.; Kuhs, P.; Wolf, S.; Weyer, T.: **Orthogonal Uncertainty Modeling in the Engineering of Cyber-Physical Systems.** IEEE Transactions on Automation Science and Engineering, **17**(3), IEEE (2020), 1250-1265. **IF 6.836**
6. Daun, M.; Weyer, T.; Pohl, K.: **Improving manual reviews in function-centered engineering of embedded software using automatically generated review models.** Software and Systems Modeling (SoSyM), **18**(6), Springer (2019), 3421-3459. **IF 1.915**
7. Brings, J.; Daun, M.; Bandyszak, T.; Stricker, V.; Weyer, T.; Mirzaei, E.; Neumann, M.; Zernickel, J. S.: **Model-based Documentation of dynamicity constraints for collaborative cyber-physical system architectures: Findings from an industrial case study.** Journal of Systems Architecture (JSA), Elsevier (2019), **97**, 153-167. **IF 2.552**
8. Méndez Fernández, D.; Böhm, W.; Vogelsang, A.; Mund, J.; Broy, M.; Kuhrmann, M.; Weyer, T.: **Artefacts in Software Engineering: A Fundamental Positioning.** Software and Systems Modeling (SoSyM), Expert's Voice, **18**(5), Springer (2019), 2777-2786. **IF 1.915**
9. Brings, J.; Daun, M.; Brinckmann, S.; Keller, K.; Weyer, T.: **Approaches, Success Factors, and Barriers for Technology Transfer in Software Engineering - Results of a Systematic Literature Review.** Journal of Software: Evolution and Process (JSEP) **30**(11), Wiley (2018), e1981. **IF 1.178**

10. Tenbergen, B.; Weyer, T.; Pohl, K.: **Hazard Relation Diagrams: A diagrammatic representation to increase validation objectivity of requirements-based hazard mitigations**. Requirements Engineering (REJ) **23**(2), Springer (2018), 291-329. **IF 2.282**
11. Tenbergen, B.; Vogelsang, A., Weyer, T.; Froese, A.; Wehrstedt, J. C.; Brandstetter, V.: **Modeling Requirements and Context as a means for Automated Requirements Validation: An Example from the Automation Industry**. Requirements Engineering Magazine, **2016**(2), IREB, Karlsruhe (2016).
12. Brandstetter, V.; Froese, A.; Tenbergen, B.; Vogelsang, A.; Wehrstedt, J. C.; Weyer, T.: **Early Validation of Automation Plant Control Software using Simulation Based on Assumption Modeling and Validation Use Cases**. Complex Systems Informatics and Modeling Quarterly (CSIMQ), **2015**(4), 50-65.
13. Braun, P.; Broy, M.; Houdek, F.; Kirchmayr, M.; Müller, M.; Penzenstadler, B.; Pohl, K.; Weyer, T.: **Guiding Requirements Engineering for software-intensive Embedded Systems in the Automotive Industry**. Computer Science – Research and Development (CSR D) **29**(1), Springer (2014), 21-43.

## Journal Articles (unrefereed)

14. Daun, M.; Bohn, P.; Brings, J.; Weyer, T.: **Structured Model-Based Engineering of Long-living Embedded Systems**. In: Softwaretechnik-Trends **36**(1), Gesellschaft für Informatik, Bonn, (2016).
15. Geisberger, E.; Kirchmayr, M.; Müller, M.; Weyer, T.: **Entwicklung eines Praxisleitfadens für das modellbasierte Requirements Engineering softwareintensiver eingebetteter Systeme**. In: Softwaretechnik-Trends **29**(1), Gesellschaft für Informatik, Bonn, (2009).
16. Pohl, K.; Weyer, T.: **Requirements Engineering**. In: WISU – Das Wirtschaftsstudium **5**(3), Lange Verlag, Düsseldorf, (2005), 349-355.

## Contributions to Conferences

17. Daun, M.; Weyer, T.; Pohl, K.: **Verbesserung manueller Validierungsprozesse von CPS Spezifikationen durch Review-Modelle auf Instanzebene**. Software Engineering 2021, Fachtagung des GI-Fachbereichs Softwaretechnik (SE 2021, Braunschweig, Germany), Lecture Notes in Informatics (LNI), Gesellschaft für Informatik, Bonn, 2021. (accepted)

18. Daun, M.; Brings, J.; Weyer, T.: **Do instance-level review diagrams support validation processes of cyber-physical system specifications? Results from a controlled experiment.** 2020 IEEE/ACM International Conference on Software and System Processes (ICSSP 2020, Seoul, South Korea), ACM, New York, 2020, 11-20.
19. Brings, J.; Daun, M.; Weyer, T.; Pohl, K.: **Goal-based configuration analysis for networks of collaborative cyber-physical systems.** 35<sup>th</sup> ACM/SIGAPP Symposium on Applied Computing (SAC 2020, Brno, Czech Republic), ACM, New York, 2020, 1387-1396.
20. Daun, M.; Weyer, T.; Pohl, K.: **Review-Modelle zur Unterstützung in der funktionszentrierten Entwicklung eingebetteter Systeme.** Software Engineering 2020, Fachtagung des GI-Fachbereichs Softwaretechnik (SE 2020, Innsbruck, Austria), Lecture Notes in Informatics (LNI), 300, Gesellschaft für Informatik, Bonn, 2020, 39-40.
21. Stenkova, V.; Daun, M.; Brings, J.; Weyer, T.: **Generic negative scenarios for the specification of collaborative cyber-physical systems.** 38<sup>th</sup> International Conference on Conceptual Modeling (ER 2019, Salvador, Bahia, Brazil), Lecture Notes in Computer Science (LNCS), Springer, Cham, 2019, 412-419.
22. Daun, M.; Brings, J.; Krajinski, L.; Weyer, T.: **On the benefits of using dedicated models in validation processes for behavioral specifications.** International Conference on Software and Systems Process (ICSSP 2019 co-located with ICSE 2019, Montréal, Canada), Computer Society, Los Alamitos, 2019, 44-53.
23. Daun, M.; Stenkova, V.; Krajinski, L.; Brings, J.; Bandyszak, T.; Weyer, T.: **Goal modeling for collaborative groups of cyber-physical systems with GRL - Reflections on applicability and limitations based on two studies conducted in industry.** 34<sup>th</sup> ACM Symposium on Applied Computing (SAC 2019, Limassol, Cyprus) ACM, New York, 2019, 1600-1609.
24. Weyer, T.; Koziolok, A.: **Preface – REFSQ 2019 Doctoral Symposium.** Joint Proceedings of REFSQ-2019 Workshops, Doctoral Symposium, Live Studies Track, and Poster Track co-located with the 25<sup>th</sup> International Conference on Requirements Engineering: Foundation for Software Quality (REFSQ 2019, Essen, Germany). CEUR Workshop Proceedings 2376, CEUR-WS.org 2019.
25. Brings, J.; Kempe, M.; Daun, M.; Weyer, T.: **Validierung und Verifikation von emergentem Verhalten im Software Engineering - Ergebnisse eines Vergleichs unterschiedlicher Suchmethoden.** Software Engineering und Software Management 2019 (SE/SWM 2019, Stuttgart, Germany), Lecture Notes in Informatics (LNI), 292, Gesellschaft für Informatik, Bonn, 2019, 47-48.

26. Daun, M.; Brings, J.; Keller, K.; Brinckmann, S.; Weyer, T.: **Erfolgreicher Technologietransfer im Software Engineering: Transferansätze, Erfolgsfaktoren und Fallstricke**. Software Engineering und Software Management 2019 (SE/SWM 2019, Stuttgart, Germany), Lecture Notes in Informatics (LNI), 292, Gesellschaft für Informatik, Bonn, 2019, 135-136.
27. Keller, K.; Brings, J.; Daun, M.; Weyer, T.: **A comparative analysis of MSC-based requirements specification approaches used in the automotive industry**. 10<sup>th</sup> System Analysis and Modeling Conference (SAM 2018, Copenhagen, Denmark), Lecture Notes in Computer Science (LNCS) 11150, Springer, Cham, 2018, 183-201.
28. Bandyszak, T.; Daun, M.; Tenbergen, B.; Weyer, T.: **Model-based Documentation of Context Uncertainty for Collaborative Cyber-Physical Systems: An Approach and Application to an Industry Automation Case Example**. 14<sup>th</sup> IEEE International Conference on Automation Science and Engineering (CASE 2018, Munich, Germany), IEEE Computer Society, Los Alamitos, 2018, 1087-1092.
29. Brings, J.; Kempe, M.; Daun, M.; Weyer, T.: **On Different Search Methods for Systematic Literature Reviews and Maps: Experiences from a Literature Search on Validation and Verification of Emergent Behavior**. 22<sup>nd</sup> International Conference on Evaluation and Assessment in Software Engineering (EASE 2018, Christchurch, New Zealand), ACM, New York, 2018, 35-45.
30. Tenbergen, B.; Weyer, T.; Pohl, K.: **Hazard Relations Diagrams**. Software Engineering 2018 (SE 2018, Ulm, Germany), Lecture Notes in Informatics (LNI) 279, Gesellschaft für Informatik, Bonn, 2018, 137-138.
31. Daun, M.; Brings, J.; Weyer, T.: **On the Impact of the Model-based Representation of Inconsistencies to Manual Reviews: Results from a Controlled Experiment**. 36<sup>th</sup> International Conference on Conceptual Modeling (ER 2017, Valencia, Spain), Lecture Notes in Computer Science (LNCS) 10650, Springer, Heidelberg, 2017, 466-473.
32. Daun, M.; Salmon, A.; Weyer, T.; Pohl, K.; Tenbergen, B.: **Project-based Learning with Examples from Industry in University Courses**. Software Engineering 2017 (SE 2017, Hannover, Germany), Lecture Notes in Informatics (LNI) 267, Gesellschaft für Informatik, Bonn, 2017, 59-60.

33. Bandyszak, T.; Moffie, M.; Goldsteen, A.; Melas, P.; Nasser, B. I.; Kalogiros, C.; Barni, G.; Hartenstein, S.; Giotis, G.; Weyer, T.: **Supporting Coordinated Maintenance of System Trustworthiness and User Trust at Runtime**. 10<sup>th</sup> IFIP International Conference on Trust Management (IFIPTM 2016, Darmstadt, Germany), Advances in Information and Communication Technology 473, Springer, Heidelberg, 2016, 96-112.
34. Daun, M.; Tenbergen, B.; Salmon, A.; Weyer, T.; Pohl, K.: **Project-based Learning with Examples from Industry in University Courses: An Experience Report from an Undergraduate Requirements Engineering Course**. 29<sup>th</sup> IEEE International Conference on Software Engineering Education and Training (CSEE&T 2016, Dallas, USA), IEEE Computer Society, Los Alamitos, 2016, 184-193.
35. Daun, M.; Salmon, A.; Bandyszak, T.; Weyer, T.: **Common Threats and Mitigation Strategies in Requirements Engineering Experiments with Student Participant**. 22<sup>th</sup> International Working Conference on Requirements Engineering - Foundation for Software Quality (REFSQ 2016, Gothenburg, Sweden), Lecture Notes in Computer Science (LNCS) 9619, Springer, Heidelberg, 2016, 269-285.
36. Daun, M.; Salmon, A.; Weyer, T.; Pohl, K.: **The Impact of Students' Skills and Experiences on Empirical Results: A Controlled Experiment with Undergraduate and Graduate Students**. 19<sup>th</sup> International Conference on Evaluation and Assessment in Software Engineering (EASE 2015, Nanjing, China), ACM, New York, 2015, 29:1-29:6.
37. Bishr, M.; Heinz, C.; Bandyszak, T.; Moffie, M.; Goldsteen, A.; Chen, W.; Weyer, T.; Ionnidis, S.; Kalogiros, C.: **Trust and Trustworthiness Maintenance: From Architecture to Evaluation** (Poster). 8<sup>th</sup> International Conference on Trust and Trustworthy Computing (TRUST 2015, Heraklion, Greek), Lecture Notes in Computer Science (LNCS) 9229, Springer, Heidelberg, 2015.
38. Gol Mohammadi, N.; Bandyszak, T.; Goldsteen, A.; Kalogiros, C.; Weyer, T.; Moffie, M.; Nasser, B.; SurrIDGE, M.: **Combining Risk-Management and Computational Approaches for Trustworthiness Evaluation of Socio-Technical Systems**. 27<sup>th</sup> International Conference on Advanced Information Systems Engineering (CAiSE 2015, Stockholm, Sweden), Forum, CEUR Proceedings 1367, 2015, 237-244.

39. Brandstetter, V.; Froese, A.; Tenbergen, B.; Vogelsang, A.; Wehrstedt, J. C.; Weyer, T.: **Early Validation of Control Software for Automation Plants on the Example of a Seawater Desalination Plant**. 27<sup>th</sup> International Conference on Advanced Information Systems Engineering (CAiSE 2015, Stockholm, Sweden), Forum, CEUR Proceedings 1367, 2015, 189-196.
40. Gol Mohammadi, N.; Bandyszak, T.; Paulus, S.; Meland, P. H.; Weyer, T.; Pohl, K.: **Extending Development Methodologies to Support Trustworthiness-by-Design for Socio-Technical Systems**. 27<sup>th</sup> International Conference on Advanced Information Systems Engineering (CAiSE 2015, Stockholm, Sweden), Forum, CEUR Proceedings, 1367, 2015, 213-220.
41. Daun, M.; Weyer, T.; Pohl, K.: **Detecting and Correcting Outdated Requirements in Function-Centered Engineering of Embedded Systems**. 21<sup>th</sup> International Working Conference on Requirements Engineering - Foundation for Software Quality (REFSQ 2015, Essen, Germany), Lecture Notes in Computer Science (LNCS) 9013, Springer, Heidelberg, 2015, 65-80.
42. Tenbergen, B.; Weyer, T.; Pohl, K.: **Supporting the Validation of Adequacy in Requirements-based Hazard Mitigations**. 21<sup>th</sup> International Working Conference on Requirements Engineering - Foundation for Software Quality (REFSQ 2015, Essen, Germany), Lecture Notes in Computer Science (LNCS) 9013, Springer, Heidelberg, 2015, 17-32.
43. Gol Mohammadi, N.; Bandyszak, T.; Kalogiros, C.; Kanakakis, M.; Weyer, T.: **A Framework for Evaluating the End-to-End Trustworthiness**. IEEE International Symposium on Recent Advances of Trust, Security and Privacy in Computing and Communications (TrustCom/BigDataSE/ISPA, Helsinki, Finland), IEEE Computer Society, Los Alamitos, 2015, 638-645.
44. Bandyszak, T.; Rzepka, M.; Weyer, T.; Pohl, K.: **Supporting the Validation of Structured Analysis Specifications in the Engineering of Information Systems by Test Path Exploration**. 17<sup>th</sup> International Conference on Enterprise Information Systems (ICEIS 2015, Barcelona, Spain), SciTePress, Setúbal, 2015, 252-259.
45. Bender, O.; Böhm, W.; Henkler, S.; Sander, O.; Vogelsang, A.; Weyer, T.: **Fünfter Workshop zur Zukunft der Entwicklung softwareintensiver eingebetteter Systeme**. Software Engineering & Management 2015 (SE 2015, Dresden, Germany), Lecture Notes in Informatics (LNI) 239, Gesellschaft für Informatik, Bonn, 2015, 271-271.

46. Gol Mohammadi, N.; Bandyszak, T.; Moffie, M.; Chen, X.; Weyer, T.; Kalogiros, C.; Nasser, B.; SurrIDGE, M.: **Maintaining Trustworthiness of Socio-Technical Systems at Run-Time**. 11<sup>th</sup> International Conference on Trust, Privacy and Security in Digital Business (TRUSTBUS 2014, Munich, Germany), Lecture Notes in Computer Science (LNCS) 8647, Springer, Heidelberg, 2014, 1-12.
47. Gol Mohammadi, N.; Bandyszak, T.; Paulus, S.; Meland, P. H.; Weyer, T.; Pohl, K.: **Extending Development Methodologies with Trustworthiness-By-Design for Socio-Technical Systems**. Extended Abstract, 7<sup>th</sup> International Conference on Trust & Trustworthy Computing (TRUST 2014, Heraklion, Greek), Lecture Notes in Computer Science (LNCS) 8564, Springer, Heidelberg, 2014, 206-207.
48. Bender, O.; Böhm, W.; Henkler, S.; Sander, O.; Vogelsang, A.; Weyer, T.: **Vierter Workshop zur Zukunft der Entwicklung softwareintensiver eingebetteter Systeme**. Software Engineering 2014 (SE 2014, Kiel, Germany), Lecture Notes in Informatics (LNI) 227, Gesellschaft für Informatik, Bonn, 2014, 213-214.
49. Daun, M.; Höfflinger, J.; Weyer, T.: **Function-Centered Engineering of Embedded Systems: Evaluating Industry Needs and Possible Solutions**. 9<sup>th</sup> International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE 2014, Lisbon, Portugal), SciTePress, Setúbal, 2014, 226-234.
50. Daun, M.; Salmon, A.; Tenbergen, B.; Weyer, T.; Pohl, K.: **Industrial Case Studies in Graduate Requirements Engineering Courses: Impact on Student Motivation**. 27<sup>th</sup> International Conference on Software Engineering Education and Training (CSEE&T 2014, Klagenfurt, Austria), IEEE Computer Society, Los Alamitos, 2014, 3-12.
51. Böhm, W.; Henkler, S.; Houdek, F.; Vogelsang, A.; Weyer, T.: **Bridging the Gap Between Systems and Software Engineering by Using the SPES Modeling Framework as a General Systems Engineering Philosophy**. 12<sup>th</sup> Annual Conference on Systems Engineering Research (CSER 2014, Redondo Beach, USA), Procedia Computer Science, Elsevier, New York, 2014, 187-194.
52. Daun, M.; Weyer, T.; Pohl, K.: **Validating the Functional Design of Embedded Systems against Stakeholder Intentions**. 2<sup>nd</sup> International Conference on Model-Driven Engineering and Software Development (MODELSWARD 2014, Lisbon, Portugal), SciTePress, Setúbal, 2014, 233-239.

53. Paulus, S.; Gol Mohammadi, N.; Weyer, T.: **Trustworthy Software Development**. 14<sup>th</sup> IFIP International Conference on Communications and Multimedia Security (CMS 2013, Magdeburg, Germany), Lecture Notes in Computer Science (LNCS) 8099, Springer, Heidelberg, 2013, 233-247.
54. Gol Mohammadi, N.; Alebrahim, A.; Weyer, T.; Heisel, M.; Pohl, K.: **A Framework for Combining Problem Frames and Goal Models to Support Context Analysis during Requirements Engineering**. International Cross Domain Conference and Workshop on Availability, Reliability and Security (CD-ARES 2013, Regensburg, Germany), Lecture Notes in Computer Science (LNCS) 8127, Springer, Heidelberg, 2013. 272-288.
55. Heuer, A.; Kaufmann, T.; Weyer, T.: **Extending an IEEE 42010-compliant Viewpoint-based Engineering-Framework for Embedded Systems to Support Variant Management**. Embedded Systems: Design, Analysis and Verification (IESS 2013, Paderborn, Germany), IFIP Advances in Information and Communication Technology (AICT) 403, Springer, Heidelberg, 2013, 235-244.
56. Bender, O.; Böhm, W.; Henkler, S.; Sander, D.; Vogelsang, A.; Weyer, T.: **Dritter Workshop zur Zukunft der Entwicklung softwareintensiver eingebetteter Systeme**. Software Engineering 2013 (SE 2013, Aachen, Germany), Lecture Notes in Informatics (LNI) 213, Gesellschaft für Informatik, Bonn, 2013, 361-362.
57. Weyer, T.; Pohl, K.: **Eine Referenzstrukturierung zur modellbasierten Kontextanalyse im Requirements Engineering softwareintensiver eingebetteter Systeme**. Fachtagung Modellierung 2008 (Modellierung 2008, Berlin, Germany). Lecture Notes in Informatics (LNI) 127, Gesellschaft für Informatik, Bonn, 2008, 181-196.
58. Rinke, T.; Weyer, T.: **Defining Reference Models for Modelling Qualities: How Requirements Engineering Techniques can help**. 13<sup>th</sup> International Working Conference on Requirements Engineering – Foundation for Software Quality, (REFSQ 2007, Trondheim, Norway), Lecture Notes in Computer Science (LNCS) 4542, Springer, Heidelberg, 2007, 335-340.

## Book Chapters

59. Bandyszak, T.; Weyer, T.; Daun, M.: **Uncertainty Theories for Real-Time Systems**. In: Tian, Y.-C.; Levy, D. C. (Eds.): Handbook of Real-Time Computing, Springer, Cham, 2020. (accepted)



60. Böhm, B.; Böhm, W.; Daun, M.; Hayward, A.; Kranz, S.; Regnat, N.; Schröck, S.; Stierand, I.; Vogelsang, A.; Voss, S.; Weyer, T.; Wortmann, A.: **Engineering of Collaborative Embedded Systems**. In: Böhm, W.; Broy, M.; Klein, C; Pohl, K.; Rumpe, B.; Schröck, S. (Eds.): Model-based Engineering of Collaborative Embedded Systems, Springer, Cham, 2020, 15-48. (in print)
61. Bandyszak, T.; Jöckel, L.; Kläs, M.; Törsleff, S.; Weyer, T.; Wirtz, B.: **Handling Uncertainty in Collaborative Embedded Systems Engineering**. In: Böhm, W.; Broy, M.; Klein, C; Pohl, K.; Rumpe, B.; Schröck, S. (Eds.): Model-based Engineering of Collaborative Embedded Systems, Springer, Cham, 2020, 147-170. (in print)
62. Böhm, W.; Daun, M.; Koutsoumpas, V.; Vogelsang, A.; Weyer, T.: **SPES XT Modeling Framework**. In: Pohl, K.; Daembkes, H.; Hönninger, H.; Broy, M. (Eds.): Advanced Model-Based Engineering of Embedded Systems – Extensions of the SPES 2020 Methodology. Springer, Heidelberg, 2016, 39-52.
63. Daun, M.; Tenbergen, B.; Brings, J.; Weyer, T.: **Context Modeling Extension**. In: Pohl, K.; Daembkes, H.; Hönninger, H.; Broy, M. (Eds.): Advanced Model-Based Engineering of Embedded Systems – Extensions of the SPES 2020 Methodology. Springer, Heidelberg, 2016, 55-68.
64. Böhm, W.; Henkler, S.; Houdek, F.; Vogelsang, A.; Weyer, T.: **Systems Engineering Extension**. In: Pohl, K.; Daembkes, H.; Hönninger, H.; Broy, M. (Eds.): Advanced Model-Based Engineering of Embedded Systems – Extensions of the SPES 2020 Methodology. Springer, Heidelberg, 2016, 71-83.
65. Albers, K.; Beck, S.; Büker, M.; Daun, M.; MacGregor, J.; Salmon, A., Weber, R.; Weyer, T.: **System Function Networks**. In: Pohl, K.; Daembkes, H.; Hönninger, H.; Broy, M. (Eds.): Advanced Model-Based Engineering of Embedded Systems – Extensions of the SPES 2020 Methodology. Springer, Heidelberg, 2016, 131-156.
66. Bandyszak, T.; Diebold, P.; Heuer, A.; Kuhn, T.; Vetrò, A; Weyer, T.: **Technology Transfer Concepts**. In: Pohl, K.; Daembkes, H.; Hönninger, H.; Broy, M. (Eds.): Advanced Model-Based Engineering of Embedded Systems – Extensions of the SPES 2020 Methodology. Springer, Heidelberg, 2016, 261-270.

67. Gol Mohammadi, N.; Paulus, S.; Bishr, M.; Metzger, A.; Könnecke, H.; Hartenstein, S.; Weyer, T.; Pohl, K.: **Trustworthiness Attributes and Metrics for Engineering Trusted Internet-based Software Systems**. In: Helfert, M.; Desprez, F.; Ferguson, D.; Leymann, F. (Eds.): Cloud Computing and Services Science 2013 (Selected Papers), Communications in Computer and Information Science (CCIS) 453, Springer, Heidelberg, 2013, 19-35.
68. Bender, O.; Hiller, M.; Tenbergen, B.; Weyer, T.: **Requirements from the Application Domains**. In: Pohl, K.; Hönninger, H.; Achatz, R.; Broy, M. (Eds.): Model-Based Engineering of Embedded Systems, Springer, Heidelberg, 2012, 15-28.
69. Broy, M.; Damm, W.; Henkler, S.; Pohl, K.; Vogelsang, A.; Weyer, T.: **Introduction to the SPES Modeling Framework**. In: Pohl, K.; Hönninger, H.; Achatz, R.; Broy, M. (Eds.): Model-Based Engineering of Embedded Systems, Springer, Heidelberg, 2012, 31-49.
70. Daun, M.; Tenbergen, B.; Weyer, T.: **Requirements Viewpoint**. In: Pohl, K.; Hönninger, H.; Achatz, R.; Broy, M. (Eds.): Model-Based Engineering of Embedded Systems, Springer, Heidelberg, 2012, 51-68.
71. Hilbrich, R.; van Kampenhout, J. R.; Daun, M.; Weyer, T.: **Modeling Quality Aspects: Real-Time**. In: Pohl, K.; Hönninger, H.; Achatz, R.; Broy, M. (Eds.): Model-Based Engineering of Embedded Systems, Springer, Heidelberg, 2012, 119-128.
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73. Pohl, K.; Weyer, T.: **Documenting Variability in Requirements Artefacts**. In: Pohl, K.; Böckle, G.; van der Linden, F. (Eds.): Software Product Line Engineering – Foundations, Principles, and Techniques. Springer, Heidelberg, 2005, 89-113.

## Contributions to Workshops

74. Daun, M.; Brings, J.; Weyer, T.: **A Semi-Automated Approach to Foster the Validation of Collaborative Networks of Cyber-Physical Systems**. IEEE/ACM International Workshop on Software Engineering for Smart Cyber-Physical Systems (SEsCPS), International Conference on Software Engineering (ICSE 2018, Gothenburg, Sweden), ACM, New York, 2018, 6-12.

75. Daun, M.; Brings, J.; Bandyszak, T.; Bohn, P.; Weyer, T.: **Collaborating Multiple System Instances of Smart Cyber-Physical Systems: A Problem Situation, Solution Idea, and Remaining Research Challenges**. IEEE/ACM International Workshop on Software Engineering for Smart Cyber-Physical Systems (SEsCPS), International Conference on Software Engineering (ICSE 2015, Florence, Italy), ACM, New York, 2015, 48-51.
76. Matulevičius, R.; Weyer, T.: **REFSQ 2015 Workshops, Research Method Track, and Poster Track**. REFSQ 2015 Workshops, Research Method Track, and Posters. CEUR Proceedings 1342, 3: 5-6.
77. Daun, M.; Tenbergen, B.; Salmon, A.; Weyer, T.: **Today's Challenges and Potential Solutions for the Engineering of Collaborative Embedded Systems**. 2<sup>nd</sup> International IFIP Workshop on Emerging Ideas and Trends in the Engineering of Cyber-Physical Systems (EITEC 2015@CPSWeek, Seattle, USA), 2015, 4:1-4:12.
78. Daun, M.; Salmon, A.; Weyer, T.: **Using dedicated Review Diagrams to detect Defective Functional Interplay in Function-Centered Engineering**. Workshops der Tagung Software Engineering, 5. Workshop zur Zukunft der Entwicklung softwareintensiver, eingebetteter Systeme (ENVISION 2020, Dresden, Germany), CEUR Proceedings 1337, 2015, 31-40.
79. Daun, M.; Tenbergen, B.; Brings, J.; Weyer, T.: **Documenting Assumptions about the Operational Context of Long-Living Collaborative Embedded Systems**. Workshops der Tagung Software Engineering 2015, 2<sup>nd</sup> Workshop on Evolution and Maintenance of Long-Living Software Systems (EMLS 2015, Dresden, Germany), CEUR Proceedings 1337, 2015, 115-117.
80. Tenbergen, B.; Sturm, A. C.; Weyer, T.: **A Hazard Taxonomy for Embedded and Cyber-Physical Systems**. 1<sup>st</sup> International Workshop on Cyber-Physical Systems Engineering - Design Space Exploration, Emerging Ideas, and Trends (EITEC 2014@CPSWeek, Berlin, Germany), 2014, 2:1-2:15.
81. Kaufmann, T.; Manz, C.; Weyer, T.: **Extending the SPES Modeling Framework for Supporting Role-specific Variant Management in the Engineering Process of Embedded Software**. 4. Workshop zur Zukunft der Entwicklung softwareintensiver, eingebetteter Systeme (ENVISION 2020, Kiel, Germany), CEUR Proceedings 1129, 2014, 77-86.
82. Daun, M.; Brings, J.; Tenbergen, B.; Weyer, T.: **On the Model-based Documentation of Knowledge Sources in the Engineering of Embedded Systems**. 4. Workshop zur Zukunft der Entwicklung softwareintensiver, eingebetteter Systeme (ENVISION 2020, Kiel, Germany), CEUR Proceedings 1129, 2014, 67-76.

83. Colett, P.; Wařowski, A.; Weyer, T.: **The Eighth International Workshop on Variability Modelling of Software-intensive Systems**. In: Proceedings of the 8<sup>th</sup> International Workshop on Variability Modelling of Software-intensive Systems (VaMoS 2014, Nice, France), ACM, New York, 2014.
84. Daun, M.; Brings, J.; Höfflinger, J.; Weyer, T.: **Funktionsgetriebene Entwicklung software-intensiver eingebetteter Systeme in der Automobilindustrie: Stand der Wissenschaft und Forschungsfragestellungen**. Software Engineering 2013 Workshops (SE 2013, Aachen, Germany), Lecture Notes in Informatics (LNI) 215, Gesellschaft für Informatik, Bonn, 2013, 293-302.
85. Tenbergen, B.; Bohn, P.; Weyer, T.: **Ein strukturierter Ansatz zur Ableitung methodenspezifischer UML/SysML-Profile am Beispiel des SPES 2020 Requirements Viewpoints**. In: Tagungsband Software Engineering 2013 (SE 2013, Aachen, Germany), Lecture Notes in Informatics (LNI) 215, Gesellschaft für Informatik, Bonn, 2013, 235-244.
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## Guest Editorials

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