

Lebenslauf

Persönliches

Name Christian Bartelt
Akademischer Rat

Wohnort Erschigweg 8
67663 Neustadt an der Weinstraße

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Geburtsdatum 03.05.1978 in Pasewalk

Familienstand Verheiratet, 4 Kinder (14, 10, 5, 2 Jahre)

Studium

1997 – 2004 **Informatikstudium** an der Technischen Universität Kaiserslautern
Studienabschluss: Diplom-Informatiker (Prädikat: Sehr Gut)

Berufliche Tätigkeit

2004 – 2007 **Wissenschaftlicher Mitarbeiter an der Technischen Universität Kaiserslautern**
Fachbereich Informatik, Lehrstuhl für Softwarearchitektur

2007 – 2011 **Wissenschaftlicher Mitarbeiter an der Technische Universität Clausthal, Institut für Informatik**
Abteilung für Software Systems Engineering

2011 **Verleihung Doktorgrad der Naturwissenschaften (Dr. rer. nat.)**
durch die Technische Universität Clausthal
Gutachter:
Prof. Dr. Andreas Rausch (TU Clausthal)
Prof. Dr. Manfred Broy (TU München)

2011 **Ernennung zum Akademischen Rat**
durch die TU Clausthal

2011 – 2015 **Projektgruppenleiter „Cyber-Physical Systems“**
Technische Universität Clausthal, Institut für Informatik
Abteilung für Software Systems Engineering

seit 2015 **Akademischer Rat und Leiter des Forschungs-Clusters AI Systems Engineering**
am Institute for Enterprise Systems (InES) der
Universität Mannheim

seit 2017 **Geschäftsführer des Institute for Enterprise Systems (InES)**
an der Universität Mannheim

Dr. Christian Bartelt

Eigenständige Lehrtätigkeit

Seit 2012

Lehrbeauftragter der Stiftung Universität Hildesheim

- Vorlesung: Prozesse und Management im Software Engineering
- Vorlesung: Requirements Engineering

Seit 2013

Lehrbeauftragter der Technischen Universität Clausthal

- Vorlesung: Informatik I: Grundlagen der Programmierung
- Vorlesung: Requirements Engineering

Seit 2016

Invited Professor der Babes-Bolyai University

in Klausenburg/Rumänien

Lehrauftrag im internationalen Bachelor-Studiengang:

Vorlesung: Software Engineering

Neustadt an der Weinstraße, 20. Juni 2019

2019

- Burzlaff, F., Wilken, N., Bartelt, C., and Stuckenschmidt, H. (2019) Semantic Interoperability Methods for Smart Service Systems: A Survey. In IEEE Transactions on Engineering Management, TEMS 2019 (to be published)
- Burzlaff, F., Ackel, M. and Bartelt, C. (2019) A Mapping Language for IoT Device Descriptions. In 42nd IEEE International Conference on Computers, Software & Applications, COMPSAC 2019
- Burzlaff, F. and Bartelt, C. (2019). A conceptual architecture for enabling future self-adaptive service systems. In Tung, B., 52nd Hawaii International Conference on System Sciences, HICSS 2019, Grand Wailea, Maui, Hawaii, USA, January 8-11, 2019 (S. 1-10). , AISeL: Atlanta, GA.

2018

- Burzlaff, F. and Bartelt, C. (2018). I4.0-device integration: A qualitative analysis of methods and technologies utilized by system integrators: Implications for engineering future industrial internet of things system. In O'Conner, L., 2018 IEEE 15th International Conference on Software Architecture companion : ICSA-C 2018 : proceedings : 30 April-4 May 2018, Seattle, Washington (S. 27-34). , IEEE: Piscataway, NJ.
- Burzlaff, F., Bartelt, C. and Adler, L. (2018). Towards automating service matching for manufacturing systems: Exemplifying knowledge-driven architecture composition. In Wang, L., 51st CIRP Conference on Manufacturing Systems (CIRP CMS 2018), Stockholm, Sweden, 16-18 May 2018 (S. 707-713). Procedia CIRP, Elsevier ; Curran: Amsterdam ; Red Hook, NY.
- Burzlaff, F., Bartelt, C. and Jacobs, S. (2018). Executing model-based software development for embedded I4.0 devices properly. In Schaefer, I., MOD-WS 2018 : Joint Proceedings of the Workshops at Modellierung 2018 co-located with Modellierung 2018, Braunschweig, Germany, February 21, 2018 (S. 35-46). *CEUR Workshop Proceedings*, RWTH: Aachen.
- Burzlaff, F., Bartelt, C. and Stuckenschmidt, H. (2018). Next steps in knowledge-driven architecture composition. In Gemulla, R., LWDA 2018 : Proceedings of the Conference "Lernen, Wissen, Daten, Analysen" Mannheim, Germany, August 22-24, 2018 (S. 78-83). *CEUR Workshop Proceedings*, RWTH: Aachen.
- Schreckenberger, C., Beckmann, S., & Bartelt, C. (2018, November). Next Place Prediction: A Systematic Literature Review. In Proceedings of the 2nd ACM SIGSPATIAL Workshop on Prediction of Human Mobility (pp. 37-45). ACM.

2017

- Burzlaff, F. and Bartelt, C. (2017). Knowledge-driven architecture composition: Case-based formalization of integration knowledge to enable automated component coupling. In O'Conner, L., ICSA 2017 : 2017 IEEE International Conference on Software Architecture : side track proceedings : proceedings : 3-7 April 2017, Gothenburg, Sweden (S. 108-111). , IEEE: Piscataway, NJ.

2015 and before

- Bartelt, Christian, Blösl, Yannik, Fischer, Benjamin, and Horn, Bernhard. 2015. „Method for an Automated Optimization of Fiber Patch Placement Layup Designs“. *International Journal of Composite Materials*. 5 (2): 37-46.
- Bartelt Christian, Karina Rehfeld, and Andreas Rausch. 2015. „Quo Vadis Cyber-Physical Systems: Research Areas of Cyber-Physical Ecosystems: A Position Paper". In *Proceedings of the ESEC/FSE 2015 Workshops - 1st International Workshop on Control Theory for Software Engineering (CTSE 2015)*. Bergamo, Italy: ACM SIGSOFT
- Bartelt Christian, Karina Rehfeldt, Stefan H. A. Wittek. 2014. "Speed up of co-simulation by a heuristic time warp mechanism". In *Proceedings of International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH)*. pp. 267-273. Vienna, Austria: IEEE
- Vogel, Martin, Tim Warnecke, Christian Bartelt, and Andreas Rausch. 2014. "Scribbler - Drawing Models in a Creative and Collaborative Environment: From Hand-Drawn Sketches to Domain Specific Models and Vice Versa." In *Proc. of Australian User Interface Conference - AUIC 2014*. Auckland, New Zealand.
- Rausch, Andreas, Christian Bartelt, Sebastian Herold, Holger Klus, and Dirk Niebuhr. 2013. "From Software Systems to Complex Software Ecosystems: Model- and Constraint-Based Engineering of Ecosystems." In *Perspectives on the Future of Software Engineering*, edited by Jürgen Münch and Klaus Schmid, 61–80. Springer Berlin Heidelberg.
- Bartelt, Christian, Volker Böss, Jan Brüning, Berend Denkena, Andreas Rausch, and Jean Paul Tatou. 2013. "A Software Architecture to Synchronize Interactivity of Concurrent Simulations in Systems Engineering." In *Proceedings of the 20th ISPE International Conference on Concurrent Engineering*. Melbourne, Australia.
- Bartelt, Christian, Martin Vogel, and Tim Warnecke. 2013. "Collaborative Creativity: From Hand Drawn Sketches to Formal Domain Specific Models and Back Again." In *Proceedings of the Workshop of Models and Their Role in Collaboration (MoRoCo) at the European Conference on Computer Supported Cooperative Work (ECSCW)*, 25–32. Paphos, Cyprus.
- Bartelt, Christian, Benjamin Fischer, and Andreas Rausch. 2013. "Towards a Decentralized Middleware for Composition of Resource-Limited Components to Realize Distributed Applications." In *Proceedings of PECCS 2013, 3rd International Conference on Pervasive and Embedded Computing and Communication Systems*, 245–251. Barcelona, Spain.
- Vogel, Martin, Tim Warnecke, and Christian Bartelt. 2013. "Scribbler: From Collaborative Sketching to Formal Domain Specific Models and Back Again." In *Proceedings of the Demo-Track at the ACM/IEEE 16th International Conference on Model Driven Engineering Languages and Systems*. Miami, USA: ACM/IEEE.
- Braun, Steven, Christian Bartelt, Martin Obermeier, Andreas Rausch, and Birgit Vogel-Heuser. 2012. "Requirements on Evolution Management of Product Lines in Automation Engineering." In *Proc. of the 7th Vienna International Conference on Mathematical Modelling (Mathmod 2012)*, 340–345. Vienna, Austria.
- Janßen, Marc, Christian Bartelt, and Andreas Rausch. 2012. "Werkzeugunterstützung bei kooperativer Modellierung und Variantenmanagement von Motorsteuergeräte-Funktionen." In *GI-Jahrestagung*, 843–852. Braunschweig, Germany.
- Bartelt, Christian. 2011. "Kollaborative Modellierung im Software Engineering". Dissertation an der Technischen Universität Clausthal, München: Dr. Hut Verlag

- Bartelt, Christian and Björn Schindler. 2010. "Technology Support for Collaborative Inconsistency Management in Model Driven Engineering." In Proc. of the 43rd Hawaii International Conference on System Sciences (HICSS), 1–7.
- Bartelt, Christian, Manfred Broy, Christoph Herrmann, Erik Knauss, Marco Kuhrmann, Andreas Rausch, Bernhard Rumpe, and Kurt Schneider. 2009. "Orchestration of Global Software Engineering Projects - Position Paper." In Proceedings of the Fourth IEEE International Conference on Global Software Engineering, 2009. ICGSE 2009, 332–337.
- Bartelt, Christian, Edward Fischer, and Thomas Ternité. 2009. "Paradigmen zur Variabilitätsbeschreibung von Vorgehensmodellen." In INFORMATIK 2009, edited by Stefan Fischer, Erik Maehle, and Rüdiger Reischuk, P-154:3507–3521. GI-Lecture Notes in Informatics. Bonn: Bonner Köllen.
- Bartelt, Christian. 2009. "Inconsistency Analysis at Integration of Evolving Domain Specific Models Based on OWL." In Proceedings of the MoDSE-MCCM 2009 Workshop at the ACM/IEEE 12th International Conference on Model Driven Engineering Languages and Systems. Denver, USA.
- Bartelt, Christian. 2008. "Consistence Preserving Model Merge in Collaborative Development Processes." In Proceedings of the International Workshop on Comparison and Versioning of Software Models at the International Conference on Software Engineering (ICSE), 13–18. CVSM '08. New York, NY, USA: ACM.
- Bartelt, Christian. 2008. "An Optimistic Three-Way Merge Based on a Meta-Model Independent Modularization of Models to Support Concurrent Evolution." In Proc. of the 2nd Workshop on Model-Driven Software Evolution (ModSe) at the 12th European Conference on Software Maintenance and Reengineering (CSMR). Athens (Greece): ACM Digital Library.
- Bartelt, Christian, and Sebastian Herold. 2006. "Modellorientiertes Variantenmanagement." In Proc. Modellierung 2006, edited by Heinrich C. Mayr and Ruth Breu, 82:173–182. Wien, Österreich. LNI. GI.
- Anastasopoulos, Michalis, Christian Bartelt, Jan Koch, Dirk Niebuhr, and Andreas Rausch. 2005. "Towards a Reference Middleware Architecture for Ambient Intelligence Systems." In Proceedings of the Workshop for Building Software for Pervasive Computing. 20th Conference on Object-Oriented Programming Systems, Languages and Applications (OOPSLA).
- Bartelt, Christian, Thomas Fischer, Dirk Niebuhr, Andreas Rausch, Franz Seidl, and Marcus Trapp. 2005. "Dynamic Integration of Heterogeneous Mobile Devices." In Proceedings of the Workshop on Design and Evolution of Autonomic Application Software, 1–7. DEAS '05. New York, NY, USA: ACM.
- Rausch, Andreas, Christian Bartelt, Thomas Ternité, and Marco Kuhrmann. 2005. "The V-Modell XT Applied - Model-Driven and Document-Centric Development." In Proceedings of the 3rd World Congress for Software Quality
- Bartelt, Christian, Thomas Fischer, Dirk Niebuhr, Andreas Rausch, Franz Seidl, and Marcus Trapp. 2005. "Dynamic Integration of Heterogeneous Mobile Devices." ACM SIGSOFT Software Engineering Notes 30 (4): 1–7.
- Bartelt, Christian, Thomas Ternité, and Matthias Zieger. 2005. "Modellbasierte Entwicklung mit dem V-Modell XT." OBJEKTSpektrum 05.
- Kuhrmann, Marco, Dirk Niebuhr, and Christian Bartelt. 2005. "Anwendung des V-Modells XT - Stand und Erfahrungen aus der Pilotierungsphase." In GI Jahrestagung (2). 68:259–263. LNI. GI.
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