

## Publicationlist of the BelAmi Project (2005-2008)

Year	Authors	Title	Event
2008	Adler, R, D Domis, M Förster, M Trapp	Probabilistic analysis of safety-critical adaptive systems with temporal dependences	RAMS 2008, Las Vegas, Nevada, USA
2008	Christmann D.	Mikroprotokoll-basierte Restrukturierung, toolgestützte Dokumentation und Evaluation von MacZ	Projektarbeit, FB Informatik, TU Kaiserslautern, März 2008
2008	Kleinberger T., Becker M., Putz W.	Assisted Living Labor: Szenarien, Ansatz und Erfahrungen im Projekt BelAml	Proceedings of the 1st German Ambient Assisted Living Congress, Berlin, Germany, 30.1.2008 - 1.2.2008
2008	Kleinberger T.	Establishing the Market for Assisted Living Solutions	Dagstuhl Seminar Assisted Living, Schloss Dagstuhl, 14-17.11.2007
2008	Kleinberger T., Nehmer J.	Dagstuhl Seminar on Assisted Living Systems - Models, Architectures and Engineering Approaches	Dagstuhl Seminar Assisted Living, Schloss Dagstuhl, 14-17.11.2007
2008	Kuhn T., Gotzhein R.	Model-Driven Platform-Specific Testing through Configurable Simulations	Proceedings of the 4th European Conference on Model Driven Architecture (ECMDA 2008)
2008	J. Nehmer, D. Rombach	Aml-based Indoor Emergency Detection and Avoidance	it - Information Technology, Jahrgang 50 (2008) Heft 1, S. 51-58
2008	Xiao J.	Entwurf und Spezifikation eines Reservierungsprotokolls basierend auf MacZ	Projektarbeit, FB Informatik, TU Kaiserslautern, November 2007
2008	Mukasa, K., Graf, C.	Towards a Natural Interaction Concept for SUI in AAL	Towards a Natural Interaction Concept for SUI in AAL
2008	Patzke, T.	A Method for Reducing Arbitrary Complexity in Reusable Embedded Systems Code - The Frame Technology Idiom	International Symposium on Software Variability: a Programmer's Perspective (SVPP)
2008	Schneider, D.; Becker, M.; Alves, V.	Runtime Models for Self-Adaptation in the Assisted Living Domain	Models@Runtime Workshop

2008	Storf, H.; Becker, M.	A Multi-Agent-based Activity Recognition Approach for Ambient Assisted Living	Proceedings of the 3rd Workshop on Artificial Intelligence Techniques for Ambient Intelligence (AITAmI2008), Patras, Greece. 21st-22nd of July 2008. Co-located event of ECAI 2008. J.C. Augusto, D. Shapiro and H. Aghajan (Eds.). ISBN: 978-960-6843-07-5.
2007	S. Adam, K. Breiner, K. Mukasa, M. Trapp	Challenges to the Model-Driven Runtime Generation of User Interfaces for Ambient Intelligent Systems	MDSE4AmI, Workshop, Darmstadt, 2007
2007	Adler, R.; Förster, M.; Trapp, M; Junger J.	RUNTIME ADAPTATION IN SAFETY-CRITICAL AUTOMOTIVE SYSTEMS	Proceedings of the 25 <sup>th</sup> IASTED International Multi-Conference Software Engineering, February 13-15, 2007, Innsbruck, Austria.
2007	Adler, R.; Förster, M.; Trapp, M.	Determining configuration probabilities of safety-critical adaptive systems	The 2007 IEEE International Symposium on Ubisafe Computing (UbiSafe-07), Niagara Falls, Ontario, Canada, May 21-23, 2007
2007	Michalis Anastasopoulos, Andras Balogh	Model-driven development of particle system families	4th International Workshop on Model-based Methodologies for Pervasive and Embedded Software (MOMPES 2007)
2007	C. Armbrust, J. Koch, U. Stocker, K. Berns	Mobile Robot Navigation Support in Living Environments	20. Fachgespräch Autonome Mobile Systeme (AMS), October, 2007 - Kaiserslautern, Germany
2007	J. Koch, J. Wettach, H. Jung, K. Berns	Dynamic Speech Interaction for Robotic Agents	13th International Conference on Advanced Robotics (ICAR07), August 21-24, 2007 - Jeju, Korea
2007	J. Koch, I. Fliege	AmICom - Middleware Support for Ambient Communication	2nd Workshop on Requirements and Solutions for Pervasive Software Infrastructures (RSPSI) at the 9th International Conference on Ubiquitous Computing (UbiComp), September 16-19, 2007 - Innsbruck, Austria
2007	J. Koch, J. Wettach, E. Bloch, K. Berns	Indoor Localisation of Humans, Objects, and mobile Robots with RFID Infrastructure	7th International Conference on Hybrid Intelligent Systems (HIS07), September 17-19, 2007 - Kaiserslautern, Germany
2007	J. Koch, M. Anastasopoulos, K. Berns	Using the Modular Controller Architecture (MCA) in Ambient Assisted Living	3rd IET International Conference on Intelligent Environments (IE07), September 24-25, 2007 - Ulm, Germany

2007	Kuhn T., Irigon de Irigon J.	An Experimental Evaluation of Black Burst Transmissions	Proceedings of the 5th ACM International Workshop on Mobility Management and Wireless Access, Chania, Crete Island, Greece, pp. 163-167
2007	Nehmer J.	Sicher und unabhängig leben im Alter – Wie elektronische Frühwarnsysteme helfen können	Symposium „Medizin im Kontext“, 19. Mai 2007, Trippstadt
2007	Nick M.; Becker, M.; Narandzic, D.; Werkman, E.	Monitoring and Assistance in Ambient Intelligence Systems;	In: Proceedings of 4th Conference on Professional Knowledge Management, 2007; Special Issue on Ambient Intelligence of German Journal on Artificial Intelligence (Themenheft "Ambient Intelligence" der Zeitschrift "Künstliche Intelligenz", guest editor Klaus Schmid; arendtap Verlag, 2007
2007	Nick, M.; Becker, M.; Narandzic, D.; Werkman, E.	Monitoring and Assistance in Ambient Intelligence	4th German Workshop on Experience Management (GWEM2007)
2007	Patzke T., Vajda L., Török A.	A Lean Approach for Evolving Heterogeneous Wireless Sensor Networks - An Assisted Living Case Study	Regional Conference on Embedded and Ambient Systems, RCEAS 2007, Budapest, November 2007
2007	Ras E., Becker M., Koch J.	Engineering Tele-Health Solutions in the Ambient Assisted Living Lab	Proceedings of the Workshop First International Workshop on Smart Homes for Tele-Health, in conjunction with IEEE 21st International Conference on Advanced Information Networking and Applications, AINA'07, Niagara Falls, Canada, May, 2007
2007	Rombach D.	Everyday Living - The Impact of ICT and New Technology	Invited Presentation at Sydney Ideas, Public Lecture Series, University of Sydney & City of Sydney, Australia
2007	Rombach D.	Ambient Assisted Living: Towards solving The Aging Society Challenge?	Lisbon Research and Policy Workshop Series on Science, Technology & Social Change, Portugese EU Presidency activity, Lisbon, Portugal, 29-30 October 2007
2007	Schmidt, D.	Exploiting Application Knowledge for DVS in Aml Related Applications	Internal Report

2007	Szente-Varga D., Horvath Gy., Rencz M.	NI-MH Battery Modelling for Ambient Intelligence Applications	Proc. 2007 Symposium on Design, Test, Integration, and Packaging of MEMS/MOEMS DTIP 2007
2007	Webel C.; Gotzhein R.	Formalization of Network Quality-of-Service Requirements	27th IFIP WG 6.1 International Conference on Formal Methods for Networked and Distributed Systems (FORTE 2007), Tallinn, Estonia, June 27-29, 2007
2006	Anastasopoulos M., Klus H., Koch J., Niebuhr D., Werkman E.	DoAml - A Middleware Platform facilitating (Re-configuration in Ubiquitous Systems	Proceedings of the Workshop System Support for Ubiquitous Computing (Ubisys) 8th International Conference of Ubiquitous Computing (UbiComp 2006), September 2006
2006	Anastasopoulos M.	Architecture-centric Configuration Management for Product Line Evolution	ERCIM Workshop on Software Evolution, 2006
2006	Becker M., Werkman E., Anastasopoulos M., Kleinberger T.	Approaching Ambient Intelligence Home Care Systems	Proceedings of 1st International Conference on Pervasive Computing Technologies for Healthcare, 2006
2006	Beneken G., Rausch A	Architektur-Workshop München 2006	Architekturen für die Evolution von Software, April 2006
2006	Bomarius F., Becker M., Kleinberger T	"Embedded Intelligence for Ambient Assisted Living	in ERCIM special edition no. 67, October 2006
2006	Decker B., Nick M.	Model and Example for CBR Systems that Adapt to rapidly Changing Context	COCOA Workshop, 2006
2006	Decker B., Ras E., Rech J., Klein B., Höcht C.	Using Wikis to Manage Use Cases: Experience and Outlook	Full Conference Paper. Workshop on Learning Software Organizations and Requirements, Universität Hannover, 2006
2006	Falessi D., Cantone G., Becker M	"Documenting Design Decision Rationale to Improve Agility and Collaboration in Decision Making: An Experimental Evaluation	Proceedings of 5th ACM-IEEE International Symposium on Empirical Software Engineering, September, 2006
2006	Falessi D., Cantone G., Becker M.	Dokumenting Design Decision Rationale to Improve Agility and Collaboration in Decision Making: An Experimental Evaluation	Proceedings of 5th ACM-IEEE International Symposium on Empirical Software Engineering, September, 2006
2006	Falessi D., Becker M., Cantone G.	"Design Decision Rationale: Experiences and Steps Ahead Towards Systematic Use	SHARK Workshop at ICSR, 2006

2006	Falessi D., Becker M., Cantone G.	Design Decision Rationale: Experiences and Steps Ahead Towards Systematic Use	in SHARK Workshop at ICSR, 2006
2006	Fliege I., Gerald A., Gotzhein R., Jaitner T., Kuhn T., Webel C.	An ambient intelligence system to assist team training and competition in cycling	Moritz, E.F., Haake, S. (Eds) (2006) The Engineering of Sport 6. Volume I: Developments for Sports. (pp.103-108) Springer Science + Business Media, New York, 2006
2006	Jaitner T., Trapp M., Niebuhr D., Koch J.	Indoor-Simulation of Team Training in Cycling	ISEA, July 2006
2006	Klus H., Niebuhr D., Weiß O.	Integrating Sensor Nodes into a Middleware for Ambient Intelligence	Proceedings of the Workshop Building Software for Sensor Networks International Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA 2006), October 2006
2006	Klus H., Rausch A.	A General Architecture for Self-Adaptive Aml Components Applied in Speech Recognition	SEAMS - Software Engineering for Adaptive and Self-Managing Systems, Shanghai, China, May 2006
2006	Krämer M., Gerald A.	Energy Measurements for MicaZ Node	Fachgespräch "Dahtlose Sensornetze", GI/ITG KuVS, 2006
2006	Kuhn T., Becker P.	A Generic Framework for the Accurate Simulation of SDL Models	Proceedings of 5th SAM (SDL And MSC) Workshop, Kaiserslautern, Germany, May/June 2006
2006	Kuhn T., Pfeifer T., Schmidt A., Woo W., Doherty G., Vernier F., Delaney K.	MACZ - a QoS MAC Layer for Ambient Intelligence Systems	J. (Eds.): Advances in Pervasive Computing 2006, Adjunct Proceedings of the 4th International Conference on Pervasive Computing. books@ocg.at Vol. 207, Austrian Computer Society (OCG): 244 pp. ISBN 3-85403-207-2, Vienna, 2006
2006	Kuhn T.	MACZ - a QoS MAC Layer for Ambient Intelligence Systems	Adjunct Prc. of the 4th International Conference on Pervasive Computing, Dublin, Ireland, May 2006
2006	Nehmer J., Karshmer A., Becker M., Lamm R.	"Living Assistance Systems – An Ambient Intelligence Approach	Proceedings of the 28th International Conference on Software Engineering (ICSE 2006), Shanghai, China, 2006

2006	Nick M.	Reducing the Case Acquisition and Maintenance Bottleneck with User-Feedback-Driven Case Base Maintenance	Proceedings of the Nineteenth International Florida Artificial Intelligence Research Society Conference (FLAIRS 2006), editors Geoff C. J. Sutcliffe and Randy G. Goebel, AAAI-Press, ISBN 978-1-57735-261-7, 2006.
2006	Rausch, A.	DisCComp - A Formal Model for Distributed Concurrent Components	Workshop "Formal Foundations of Embedded Software and Component-Based Software Architectures (FESCA 2006)", Vienna, Austria (Satellite workshop of ETAPS 2006), March 2006
2006	Schneider D., Anastasopoulos M., Bayer J., Becker M., Webel C.	QoS Specification in Ambient Intelligence Systems	Proceedings of ICPS06/SEPS Workshop, Lyon, France, 2006
2006	Szente-Varga D., Horvath Gy., Rencz M.	Creating Temperature Dependent Ni-MH Battery Models for Low Power Mobile Devices	Proceedings Therminic 2006, Nice
2006	Webel C., Fliege I., Gerald A., Gotzhein R., Krämer M., Kuhn T.	Cross-Layer Integration in Ad-Hoc Networks with Enhanced Best-Effort Quality-of-Service Guarantees	Proceedings of the World Telecommunications Congress, Budapest, Hungary, April 2006
2006	Wehn N., Schmidt D.	Hardware/Software Trade-offs for Advanced 3G Channel Decoding	Customizable Embedded Processors, pages 361-375, Morgan Kaufmann Publishers 2006-09-21
2005	Anastasopoulos M., Patzke T., Becker M.	Software Product Line Technology for Ambient Intelligence Applications	Proceedings of Net.ObjectDays, 2005
2005	Anastasopoulos M., Bartelt C., Koch J., Niebuhr D., Rausch A.	Towards a Reference Middleware Architecture for Ambient Intelligence Systems	Proceedings of the Workshop for Building Software for Pervasive Computing 20th Conference on Object-Oriented Programming Systems, Languages and Applications (OOPSLA), October 2005
2005	Anastasopoulos M., Patzke T., Becker M.	Software Product Line Technology for Ambient Intelligence Applications	MAC workshop @ NODE 2005
2005	Bartelt C., Fischer T., Niebuhr D., Rausch A., Seidl F., Trapp M.	Dynamic Integration of Heterogeneous Mobile Devices	Proceedings of the Workshop in Design and Evolution of Autonomic Application Software (DEAS 2005), ICSE 2005, May 21, 2005, St. Louis, Missouri, USA, 2005

2005	Bartelt C., Koch J., Niebuhr D., Rausch A., Anastasopoulos M.	Towards a Reference Middleware Architecture for Ambient Intelligence Systems	Conference (OOPSLA Workshop) September 2005
2005	Beneken G., Rausch A.	Architekturen für die Evolution von Software, September 2005	Architektur-Workshop München, September 2005
2005	Beneken G., Marschall F., Rausch A.	A Model Framework Weaving Approach - Position Paper	Proceedings of the First Workshop on Models and Aspects - Handling Crosscutting Concerns in MDS at the 19th European Conference on Object-Oriented Programming (ECOOP 2005), July 2005
2005	Bergner K., Rausch A., Shiling M., Ternité T.	DoSAM - Domain-Specific Software Architecture Comparison Model	Proceedings of the International Conference on Quality of Software Architectures, September 2005
2005	Gilbert F., Vogt T., Wehn N.	Architecture Driven Voltage Scaling for High-Throughput Turbo-Decoders	Journal of Embedded Computing, Vol. 1, Issue 3, pages 391-402, 2005
2005	Jaitner T., Trapp M., Niebuhr D., Koch J.	Belastungssteuerung beim Mannschaftsfahren mit Hilfe von Feedback-Technologien	Schriften der Deutschen Vereinigung für Sportwissenschaft - 2005-151-301-2005
2005	Kienle F., Brack T., Wehn N.	A synthesizable IP Core for DVB-S2 LDPC Code Decoding	Proceedings of DATE 2005, pages 1530-1535. Distinguished with Design Contest Award.
2005	Kuhn T., Gerald A., Gotzhein R., Rothländer F.	ns+SDL - The Network Simulator for SDL-Systems	A. Prinz, R. Reed, J. Reed (eds.) SDL 2005: Model Driven, Lecture Notes in Computer Science 3530, Springer, 2005, pp. 103-116, 2005
2005	Neeb C., Wehn N.	Energieminimierung von Basisbandsignalverarbeitungs-algorithmen auf programmierbaren Plattformen	Lecture Notes in Informatics, September 2005, Bonn
2005	Niebuhr D., Peper C., Rausch A.	Towards reliable self-integrative IT systems	Proceedings of the Tenth International Workshop on Component-Oriented Programming, 19th European Conference on Object-Oriented Programming, July 2005
2005	Niebuhr D., Peper C., Rausch A.	Towards reliable self-integrative IT systems	Proceedings of the Tenth International Workshop on Component-Oriented Programming, 19th European Conference on Object-Oriented Programming, July 2005

2005	Schmid K., Eisenbarth M., Grund M.	From Requirements Engineering to Knowledge Engineering: Challenges in Adaptive Systems	1st International Workshop on Service-Oriented Computing: Consequences for Engineering Requirements (SOCCER'05), Paris, France, July, 2005
2005	Schmidt D., Wehn N.	Hardware/Software Trade-offs for Advanced 3G Channel Decoding	Technische Universität Kaiserslautern
2005	Török A., Vajda L.	Techniques to Improve Scheduling Performance in IEEE 802.15.3 based ad hoc networks	IEEE GLOBECOM, 2005, Saint Louis, Missouri, USA, November 2005
2005	Trapp M.	The Influence of Unpredictability on Multiple User Interface Development	Workshop on Multi-User and Ubiquitous User Interfaces (MU3I) at Intern. Conference on Intelligent User Interfaces (IUI), San Diego, USA, Jan. 2005
2005	Wehn N.	Power Optimization in Advanced Channel Coding	Proceedings, Dagstuhl Seminar 05141 Power Aware Computing Systems, April 2005
2004	Litz L., Wehn N., Schürmann B.	Research Center "Ambient Intelligence" at the University of Kaiserslautern	VDE Kongress 2004, Volume 1, pages 19-24, VDE-Verlag, November 2004