

Publication List

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Lyngby, 6.11.2008

PUBLICATIONS: OBJECT-ORIENTED MODELING AND EXTENSIONS OF UML

Invited Papers

- [1] L. Andrade, P. Baldan, H. Baumeister, R. Bruni, A. Corradini, R. De Nicola, J. L. Fiadeiro, F. Gadducci, S. Gnesi, P. Hoffman, N. Koch, P. Kosiuczenko, A. Lapadula, D. Latella, A. Lopes, M. Loreti, M. Massink, F. Mazzanti, U. Montanari, C. Oliveira, R. Pugliese, A. Tarlecki, M. Wermelinger, M. Wirsing, and A. Zawłocki. AGILE: Software architecture for mobility. In Martin Wirsing, Dirk Pattinson, and Rolf Hennicker, editors, *Recent Trends in Algebraic Development Techniques—16th International Workshop, WADT 2002, Frauenchiemsee, Germany, Sept. 24–27, 2002*, volume 2755 of LNCS. Springer, November 2003. 34 p.
- [2] Hubert Baumeister, Nora Koch, Piotr Kosiuczenko, Perdita Stevens, and Martin Wirsing. UML for global computing. In Corrado Priami, editor, *Global Computing. Programming Environments, Languages, Security, and Analysis of Systems. IST/FET International Workshop, GC 2003, Rovereto, Italy, Feb. 9-14, 2003, Revised Papers*, volume 2874 of LNCS, November 2003. 25 p.

Reviewed Publications

- [3] Gefei Zhang, Hubert Baumeister, Nora Koch, and Alexander Knapp. Aspect-Oriented Modeling of Access Control in Web Applications. In *Proc. 6th Int. Wsh. Aspect Oriented Modeling (WAOM'05)*, Chicago, 2005. 6 p.
- [4] Hubert Baumeister, Alexander Knapp, Nora Koch, and Gefei Zhang. Modelling adaptivity with aspects. In David Lowe, San Murugesan, and Martin Gaedke, editors, *5th International Conference on Web Engineering, ICWE2005, Sydney, Australia, July 25-29, 2005*, volume 3579 of LNCS, pages 406–416, 2005.
- [5] Diego Latella, Mieke Massink, Hubert Baumeister, and Martin Wirsing. Mobile UML statecharts with localities. In Corrado Priami and Paola Quaglia, editors, *Global Computing: IST/FET International Workshop, GC 2004, Rovereto, Italy, March 9-12, 2004. Revised Selected Papers*, volume 3267 of LNCS, pages 34–58, 2005.
- [6] Hubert Baumeister, Nora Koch, Piotr Kosiuczenko, and Martin Wirsing. Extending activity diagrams to model mobile systems. In M. Aksit, M. Mezini, and R. Unland, editors, *Objects, Components, Architectures, Services, and Applications for a Networked World. International Conference NetObjectDays, NODE 2002, Erfurt, Germany, Oct. 7–10, 2002. Revised Papers*, volume 2591 of LNCS, pages 278–293. Springer, 2003.
- [7] Nora Koch, Hubert Baumeister, Rolf Hennicker, and Luis Mandel. Extending UML for Modeling Navigation and Presentation in Web Applications. In Geri Winters and Jason Winters, editors, *In Modeling Web Applications in the UML Workshop, UML '2000*, York, England, October 2000. 5 p.
- [8] Hubert Baumeister, Christoph Maier, Martin Rappl, and Peter Scholz. Refinement using μ -charts - the Compaq Grand Slam Cup case study revisited. 1999. Proceedings of the 17th Annual AoM/IAoM International Conference on Computer Science, San Diego, USA, 6 p.
- [9] Hubert Baumeister, Nora Koch, and Luis Mandel. Towards a UML extension for hypermedia design. In *UML '99 The Unified Modeling Language - Beyond the Standard*, LNCS 1723, Fort Collins, USA, October 1999. Springer Verlag. 16 p.

Technical Reports

- [10] Hubert Baumeister and Christoph Maier. Description techniques for distributed hypermedia systems. Technical report 9808, 1998. 26 p.

Invited Papers

- [11] Hubert Baumeister, Rolf Hennicker, Alexander Knapp, and Martin Wirsing. OCL Component Invariants. In Luqi and Manfred Broy, editors, *Proc. Wsh. Monterey - Engineering Automation for Software Intensive System Integration*, pages 208–215. U.S. Naval Postgraduate School, Monterey, 2001.
- [12] Hubert Baumeister and Didier Bert. Algebraic specification in CASL. In Marc Frappier and Henri Habrias, editors, *Software specification Methods: An Overview Using a Case Study*, FACIT (Formal Approaches to Computing and Information Technology), chapter 12, pages 209–224. Springer, October 2000.

Reviewed Publications

- [13] Michel Bidoit, Rolf Hennicker, Alexander Knapp, and Hubert Baumeister. Glass-Box and Black-Box Views on Object-Oriented Specifications. In Jorge R. Cuellar and Zhiming Liu, editors, *Proc. 2nd IEEE Int. Conf. Software Engineering and Formal Methods (SEFM'04)*, pages 208–217. IEEE Computer Society Press, 2004.
- [14] Rolf Hennicker, Alexander Knapp, and Hubert Baumeister. Semantics of OCL Operation Specifications. In Peter H. Schmitt, editor, *Proc. Wsh. OCL 2.0 - Industry standard or scientific playground?*, volume 120 of *Electr. Notes Theo. Comp. Sci.*, pages 111–132. Elsevier, 2004.
- [15] Rolf Hennicker, Hubert Baumeister, Alexander Knapp, and Martin Wirsing. Specifying Component Invariants with OCL. In Kurt Bauknecht, Wilfried Brauer, and Thomas Mück, editors, *Proc. GI/OCG-Jahrestagung*, volume 157/I of *books@ocg.at*, pages 600–607. ÖGI (Austrian Computer Society), 2001.
- [16] Hubert Baumeister and Alexandre Zamulin. State-based extension of CASL. In Wolfgang Grieskamp, Thomas Santen, and Bill Stoddart, editors, *Integrated Formal Methods. Second International Conference, IFM 2000, Dagstuhl Castle, Germany*, volume 1945 of *LNCS*, pages 3–24. Springer, December 2000.
- [17] Hubert Baumeister. Relating abstract datatypes and Z-schemata. In Didier Bert and Christine Choppy, editors, *Recent Trends in Algebraic Development Techniques, 14th International Workshop, WADT'99, Bonas, France, September 1999; Selected Papers*, volume 1827 of *LNCS*. Springer, 2000. 15 p.
- [18] Hubert Baumeister. Relations as abstract datatypes: An institution to specify relations between algebras. In *TAPSOFT/FASE, Proceedings of the Sixth International Joint Conference on the Theory and Practice of Software Development, Colloquium on Formal Approaches in Software Engineering*, Aarhus, Denmark, May 1995. Springer.
- [19] Hubert Baumeister. Unifying initial and loose semantics of parameterized specifications in an arbitrary institution. In S. Abramsky and T. S. E. Maibaum, editors, *Tapsoft '91, Proceedings of the International Joint Conference on Theory and Practice of Software Development, Volume 1: Colloquium on Trees in Algebra and Programming (CAAP)*, pages 103–120. Brighton, UK, April 1991. Springer Verlag.
- [20] Hubert Bertling, Harald Ganzinger, and Hubert Baumeister. CEC (Conditional Equations Completion). In Franz-Josef Brandenburg, Guy Vidal-Naquet, and Martin Wirsing, editors, *STACS 87, 4th Annual Symposium on Theoretical Aspects of Computer Science, Passau, Germany, February 19-21, 1987, Proceedings*, volume 247 of *LNCS*, page 470. Springer, 1987.

Book Chapter, Theses, and Technical Reports

- [21] Alexander Knapp, Stephan Janisch, Rolf Hennicker, Allan Clark, Stephen Gilmore, Florian Hacklinger, Hubert Baumeister, and Martin Wirsing. Modelling the CoCoME with the Java/A Component Model. In Andreas Rausch, Ralf Reussner, Raffaella Mirandola, and Frantisek Plasil, editors, *The Common Component Modeling Example: Comparing Software Component Models*, volume 5153 of *Lect. Notes Comp. Sci.*, pages 207-237, 2008.
- [22] H. Baumeister, M. Cerioli, A. Haxthausen, T. Mossakowski, P. Mosses, D. Sannella, and A. Tarlecki. CASL semantics. In P. D. Mosses, editor, *CASL Reference Manual*, volume 2960 of *LNCS*. Springer, 2004.
- [23] Hubert Baumeister. *Relations between Abstract Datatypes modeled as Abstract Datatypes*. Dissertation, Universität des Saarlandes, Saarbrücken, May 1999. <http://www.ifi.lmu.de/~baumeist/diss.pdf>. 208 p.

- [24] Hubert Baumeister. Über die Stabilität parameterisierter algebraischer Spezifikationen (About the stability of parameterized algebraic specifications), July 1990. Diploma thesis, Universität Dortmund; 71 p. <http://www.ifi.lmu.de/~baumeist/diplom.pdf>.
- [25] Hubert Baumeister. Using algebraic specification languages for model-oriented specifications. Technical report MPI-I-96-2-003, February 1996. 17 p.
- [26] Hubert Baumeister. Parameter passing in the typed λ -calculus approach to parameterized specifications. Technischer Bericht MPI-I-94-211, Max-Planck-Institut für Informatik, April 1994. 14 p.

Proceedings

- [27] Hubert Baumeister, Michele Marchesi, and Mike Holcombe, editors. *Extreme Programming and Agile Processes in Software Engineering: 6th International Conference, XP 2005, Sheffield, UK, June 18–23, 2005*, volume 3556 of LNCS. Springer, June 2005.
- [28] Jutta Eckstein and Hubert Baumeister, editors. *Extreme Programming and Agile Processes in Software Engineering: 5th International Conference, XP 2004, Garmisch-Partenkirchen, Germany, June 6-10, 2004*, volume 3092 of LNCS. Springer, June 2004.

Invited Papers

- [29] Hubert Baumeister, Alexander Knapp, and Martin Wirsing. Property-Driven Development. In Jorge R. Cuellar and Zhiming Liu, editors, *Proc. 2nd IEEE Int. Conf. Software Engineering and Formal Methods (SEFM'04)*, pages 96–102. IEEE Computer Society Press, 2004. Extended abstract.
- [30] Hubert Baumeister and Martin Wirsing. Applying test-first programming and iterative development in building an E-business application. In *Proceedings International Conference on Advances in Infrastructure for e-Business, e-Education, e-Science, and e-Medicine on the Internet, SSGRR 2002, L'Aquila, Italy, 2002*. 6 p.

Reviewed Publications

- [31] Hubert Baumeister. Combining formal specifications with test driven development. In *Proc. 4th Intl. Conf. on Extreme Programming and Agile Methods (XPAU04), Calgary, Canada, August 15-18, 2004*, volume 3134 of LNCS. Springer, 2004. 12 p.
- [32] Hubert Baumeister. Formal methods and Extreme Programming. In Dieter Hutter, David Basin, Peter A. Lindsay, and Christopher Lüth, editors, *Workshop on Evolutionary Formal Software Development, EFSO, Copenhagen, July 2002*. 2 p.
- [33] Hubert Baumeister. Towards using Extreme Programming to the formal specification of software; abstract, October 2002. Presented at 16th International Workshop on Algebraic Development Techniques, WADT, Frauenchiemsee, 1 p.

SOFTWARE AND FRAMEWORKS

Invited Papers

- [34] Harald Ganzinger, Georg Heeg, Hubert Baumeister, and Michael Rüger. Smalltalk-80. *Informationstechnik — it*, 29(4):241–251, 1987.

Reviewed Publications

- [35] Hubert Baumeister. Customer relationship management for SMEs. In *Proceedings E2002, Prague, Oct. 2002*, October 2002. Reprinted in CRMToday (www.crm2day.com), 7 p.
- [36] Hubert Baumeister. Using XP to develop a CRM framework. In *Proceedings XP2002, Alghero, May 2002*. 5 p.
- [37] Hubert Baumeister and Piotr Kosiuczenko. CARUSO: Customer Care and Relationship Support Office. In Ricardo Goncalves and Adolfo Steiger-Garcia, editors, *Product and Process Modelling in Building and Construction, Proceedings of the Third European Conference on Product and Process Modelling in the Building and Related Industries, Lisbon, Portugal, 25-27 September 2000*, pages 115–120. A. A. Balkema, Rotterdam, Brookfield, 2000.
- [38] Rupert Rockinger and Hubert Baumeister. BABSy: Basic Agent Framework Billing System. In *Proceedings International ICSC Symposium on Multi-Agents and Mobile Agents in Virtual Organizations and E-Commerce (MAMA'2000), Wollongong, Australia, December 2000*. 7 p.