## Publications of the members of the AG Siekmann that are employed at Saarland Univ. of the years 2000-2002

- 1. Christoph Benzmüller. An agent based approach to reasoning. In Extended abstract for invited plenary talk at AISB'01 Convention 'Agents and Cognition. University of York, March 2001.
- 2. Christoph Benzmüller. Comparing approaches to resolution based higher-order theorem proving. Synthese, An International Journal for Epistemology, Methodology and Philosophy of Science, Kluwer, 2001.
- 3. Christoph Benzmüller. A remark on higher order RUE-resolution with EXTRUE. SEKI Technical Report SR-02-05, Fachbereich Informatik, Universität des Saarlandes, Saarbrücken, Germany, 2002.
- Christoph Benzmüller and Regine Endsuleit (Eds.). CALCULEMUS Autumn School 2002: Course Notes (Part I). SEKI Technical Report SR-02-07, Fachbereich Informatik, Universität des Saarlandes, Saarbrücken, Germany, 2002.
- Christoph Benzmüller and Regine Endsuleit (Eds.). CALCULEMUS Autumn School 2002: Course Notes (Part II). SEKI Technical Report SR-02-08, Fachbereich Informatik, Universität des Saarlandes, Saarbrücken, Germany, 2002.
- Christoph Benzmüller and Regine Endsuleit (Eds.). CALCULEMUS Autumn School 2002: Course Notes (Part III). SEKI Technical Report SR-02-09, Fachbereich Informatik, Universität des Saarlandes, Saarbrücken, Germany. 2002.
- 7. Christoph Benzmüller, Armin Fiedler, Andreas Meier, and Martin Pollet. Irrationality of  $\sqrt{2}$  a case study in  $\Omega$ MEGA. Seki Report SR-02-03, Universität des Saarlandes, Saarbrücken, Germany, 2002.
- 8. Christoph Benzmüller, Corrado Giromini, and Andreas Nonnengart. Symbolic verification of hybrid systems supported by mathematical services. In Additional Proceedings of 10<sup>th</sup> Symposium on the Integration of Symbolic Computation and Mechanized Reasoning (CALCULEMUS 2002), Marseilles, France, 2002.
- 9. Christoph Benzmüller, Corrado Giromini, Andreas Nonnengart, and Jürgen Zimmer. Reasoning services in the MATHWEB-sb for symbolic verification of hybrid systems. In *Proceedings of the Verification Workshop* VERIFY'02 in connection with FLOC 2002, København, 2002.
- 10. Christoph Benzmüller, Mateja Jamnik, Manfred Kerber, and Volker Sorge. Resource guided concurrent deduction. In Proceedings of the AISB'2000 Symposium 'How to design a functioning mind', Birmingham, England, April 2000. Also in: Proceedings of the 7th Workshop on Automated Reasoning 'Bridging the Gap between Theory and Practice'.
- 11. Christoph Benzmüller, Mateja Jamnik, Manfred Kerber, and Volker Sorge. An agent-oriented approach to reasoning. In *Proceedings of the Calculemus Workshop 2001*, Siena, Italy, 2001.
- 12. Christoph Benzmüller, Mateja Jamnik, Manfred Kerber, and Volker Sorge. Experiments with an agent-oriented reasoning system. In *Proceedings of KI'* 2001, volume 2174 of *LNAI*. Springer, 2001.
- 13. Christoph Benzmüller and Manfred Kerber. A lost proof. In Proceedings of the IJCAR 2001 Workshop: Future Directions in Automated Reasoning, Siena, Italy, 2001.
- 14. Christoph Benzmüller, Michaël Kohlhase, and Chad E. Brown. Higher order semantics and extensionality. Technical report, Carnegie Mellon University, Pittsburgh, PA, 2002.
- 15. Christoph Benzmüller, Michaël Kohlhase, and Chad E. Brown. Semantic techniques for cut-elimination in higher order logic. Technical report, Carnegie Mellon University, Pittsburgh, PA, 2002.
- Christoph Benzmüller, Andreas Meier, Erica Melis, Martin Pollet, and Volker Sorge. Proof planning: A fresh start? In Proceedings of the IJCAR 2001 Workshop: Future Directions in Automated Reasoning, Siena, Italy, 2001.
- 17. Christoph Benzmüller, Andreas Meier, Martin Pollet, and Volker Sorge. Proof expansion and transformation with a parameterisable inference machine. In *Proceedings of the Eighth Workshop on Automated Reasoning, Bridging the Gap between Theory and Practice.* University of York, March 2001.
- 18. Christoph Benzmüller, Andreas Meier, and Volker Sorge. Distributed assertion retrieval. In First International Workshop on Mathematical Knowledge Management RISC-Linz, Schloss Hagenberg, 2001.
- Christoph Benzmüller, Andreas Meier, and Volker Sorge. Agent-based theorem proving. In In Proceedings of the 9th Workshop on Automated Reasoning: Bridging the Gap between Theory and Practice, London, England, 2002.
- 20. Christoph Benzmüller, Andreas Meier, and Volker Sorge. Bridging theorem proving and mathematical knowledge retrieval. In Festschrift in Honour of Jörg Siekmann, LNAI, 2002.
- 21. Christoph Benzmüller and Volker Sorge. ΩANTS an open approach at combining interactive and automated theorem proving. In M. Kerber and M. Kohlhase, editors, *Proceedings of the Calculemus Symposium 2000*, St. Andrews, UK, 6-7 August 2000. A K Peters, New York, NY, USA.
- 22. Johan Bos and Michaël Kohlhase, editors. Proceedings of Inference in Computational Semantics ICos-2, 2000.
- 23. Jochen Büdenbender, Erik Andres, Adrian Frischauf, Georg Goguadze, Paul Libbrecht, Erica Melis, and Carsten Ullrich. Using computer algebra systems as cognitive tools. In S.A. Cerri, G. Gouarderes, and F. Paraguacu, editors, 6th International Conference on Intelligent Tutor Systems (ITS-2002), number 2363 in Lecture Notes in Computer Science, pages 802–810. Springer-Verlag, 2002.

- 24. Jacques Calmet, Belaid Benhamou, Olga Caprotti, Laurent Henocque, and Volker Sorge, editors. Artificial Intelligence, Automated Reasoning, and Symbolic Computation Joint International Conference, AISC 2002 and Calculemus 2002, volume 2385 of LNAI, Marseille, France, July 1-5 2002. Springer Verlag, Berlin, Germany.
- 25. Olga Caprotti and Volker Sorge, editors. Calculemus 2002 10th Symposium on the Integration of Symbolic Computation and Mechanized Reasoning Work in Progress Papers, number SR-02-04 in Seki Report, Marseille, France, June 3-5 2002. Computer Science Department, Universität des Saarlandes, Saarbrücken, Germany.
- 26. Lassaad Cheikhrouhou and Volker Sorge. PDS A Three-Dimensional Data Structure for Proof Plans. In Proceedings of the International Conference on Artificial and Computational Intelligence for Decision, Control and Automation in Engineering and Industrial Applications (ACIDCA'2000), Monastir, Tunisia, 22-24 March 2000.
- 27. Seungyeob Choi and Andreas Meier. Proof planning in omega with semantic guidance. Technical Report CSRP-01-11, University of Birmingham, School of Computer Science, December 2001.
- 28. Armin Fiedler. Determining and structuring the content of presentations of proofs in natural language. In Erica Melis and Dana Scott, editors, Proceedings of 17th International Conference on Automated Deduction—Workshop W4: Automated Deduction in Education, pages 44–51, Pittsburgh, PA, 2000.
- 29. Armin Fiedler. Dialog-driven adaptation of explanations of proofs. In Bernhard Nebel, editor, *Proceedings of the 17th International Joint Conference on Artificial Intelligence (IJCAI)*, pages 1295–1300, Seattle, WA, 2001. Morgan Kaufmann.
- 30. Armin Fiedler. P.rex: An interactive proof explainer. In Rejeev Goré, Alexander Leitsch, and Tobias Nipkow, editors, Automated Reasoning 1st International Joint Conference, IJCAR 2001, number 2083 in LNAI, pages 416–420, Siena, Italy, 2001. Springer Verlag.
- 31. Armin Fiedler. *User-adaptive proof explanation*. PhD thesis, Naturwissenschaftlich-Technische Fakultät I, Saarland University, Saarbrücken, Germany, 2001.
- 32. Armin Fiedler, Andreas Franke, Helmut Horacek, Markus Moschner, Martin Pollet, and Volker Sorge. Ontological issues in the representation and presentation of mathematical concepts. In Jérôme Euzenat, Asuncion Gómez Pérez, Nicola Guarino, and Heiner Stuckenschmidt, editors, *Proceedings of the ECAI 2002 Workshop on Ontologies and Semantic Interoperability*, pages 62–66, Lyon, France, 2002.
- 33. Armin Fiedler and Malte Gabsdil. Supporting progressive refinement of Wizard-of-Oz experiments. In Carolyn Penstein Rose and Vincent Aleven, editors, *Proceedings of the ITS 2002 Workshop on Empirical Methods for Tutorial Dialogue Systems*, pages 62–69, San Sebastián, Spain, 2002.
- 34. Armin Fiedler and Helmut Horacek. Argumentation in explanations to logical problems. In Vassil N. Alexandrov, Jack J. Dongarra, Benjoe A. Juliano, René S. Renner, and C. J. Kenneth Tan, editors, *Computational Science ICCS 2001*, number 2074 in LNCS, pages 969–978, San Francisco, CA, 2001. Springer Verlag.
- 35. Armin Fiedler and Helmut Horacek. Argumentation with deductive reasoning. In Giuseppe Carenini, Floriana Grasso, and Chris Reed, editors, *Proceedings of the ECAI 2002 Workshop on Computational Models of Natural Argument*, pages 55–63, Lyon, France, 2002.
- 36. Norman Y. Foo, Dongmo Zhang, Quoc Bao Vo, and Samir Chopra. Encoding solutions of the frame problem in dynamic logic. In *International Conference on Logic Programming and Non-monotonic Reasoning LPNMR'* 01, pages 240–253. Springer-Verlag, Berlin-Heidelberg, 2001.
- 37. Norman Y. Foo, Dongmo Zhang, Quoc Bao Vo, and Pavlos Peppas. Circumscriptive models and automata. In Michaël Thielscher and Marianne Williams, editors, Workshop on Non-monotonic Reasoning, Action and Change co-located with IJCAI-01 Proceedings, pages 7-13, 2001.
- 38. Andreas Franke and Michaël Kohlhase. System description: MBASE, an open mathematical knowledge base. In David McAllester, editor, Automated Deduction CADE-17, number 1831 in LNAI, pages 455–459. Springer Verlag, 2000.
- 39. Andreas Franke, Markus Moschner, and Martin Pollet. Cooperation between the mathematical knowledge base MBASE and the theorem prover ΩMEGA. In Olga Caprotti and Volker Sorge, editors, 10 th Symposion on the Integration of Symbolic Computation and Mechanized Reasoning, Work in Progress Papers, volume SR-02-04 of Seki Report, pages 68-70, Saarbrücken, Germany, 2002. Fachbereich Informatik, Universität des Saarlandes.
- 40. Georg Goguadse, Erica Melis, Carsten Ullrich, and Paul Cairns. Problems and solutions for markup for mathematical examples and exercises. In A. Asperti, editor, *International Conference on Mathematical Knowledge Management*, MKM03, pages –, 2003. to appear.
- 41. A. Gonzalez-Palomo, Paul Libbrecht, and C. Ullrich. A presentation architecture for individualized content. In The Twelfth International World Wide Web Conference, 2003. submitted.
- 42. Helmut Horacek. Presenting equation proofs in a human-oriented style. In R. Trappl, editor, Cybernetics and Systems'2000, 2000.
- 43. Helmut Horacek. Presenting mathematical concepts as an example for inference-rich domains. In E. Métais M. Bouzeghoub, Z. Kedad, editor, International Conference on Application of Natural Language to Information Systems NLDB'2000, 2000.
- 44. Helmut Horacek. Tailoring inference-rich descriptions through making compromises between conflicting principles. *International Journal on Human Computer Studies*, 53:1117-1146, 2000.

- 45. Helmut Horacek. Towards understanding conceptual differences between minimaxing and product propagation. In Werner Horn, editor, European Conference on Artificial Intelligence (ECAI-2000), Berlin, 2000.
- 46. Helmut Horacek. An approach to building domain models interactively. In *International Conference on Application of Natural Language to Information Systems NLDB'2001*, Madrid, 2001.
- 47. Helmut Horacek. Expressing references to rules in proof presentations. In (short paper) CADE-01, Siena, 2001.
- 48. Helmut Horacek. Ontological aspects in representing mathematical knowledge for reasoning and presentation purposes. In *Workshop on Ontologies at KI-2001*, Wien, 2001.
- 49. Helmut Horacek. Textgenerierung. In K.-U. Carstensen, editor, Computerlinguistik und Sprachtechnologie. Spektrum Akad. Verl., 2001.
- 50. Helmut Horacek. Aggregation with strong regularities and alternatives. In *International Conference on Natural Language Generation*, New York, 2002.
- 51. Helmut Horacek. Varying cardinality in metonymic extensions to nouns. In COLING2002, Taipei, 2002.
- 52. Helmut Horacek. Varying cardinality in metonymic extensions to nouns. In Robert Trappl, editor, Cybernetics and Systems'2002, Wien, 2002.
- 53. Helmut Horacek and Armin Fiedler. Towards understanding the role of hints in tutorial dialogs. In P. Kühnlein, H. Rieser, and H. Zeevat, editors, Proceedings of the 5th Workshop on Formal Semantics and Pragmatics of Dialog (BI-DIALOG 2001), pages 40-44, Bielefeld, Germany, 2001.
- 54. Malte Hübner, Serge Autexier, and Christoph Benzmüller. Agent-based proof search with indexed formulas. In Additional Proceedings of 10<sup>th</sup> Symposium on the Integration of Symbolic Computation and Mechanized Reasoning (CALCULEMUS 2002), Marseilles, France, 2002.
- 55. Dieter Hutter and Michaël Kohlhase. Managing structural information by higher-order colored unification. Journal of Automated Reasoning, 25(2):123-164, 2000.
- 56. Mateja Jamnik, Manfred Kerber, and Christoph Benzmüller. Towards learning new methods in proof planning. In *Proceedings of the Calculemus Symposium 2000*, St. Andrews, Schottland, August 2000. A.K.Peters.
- 57. Mateja Jamnik, Manfred Kerber, and Christoph Benzmüller. Automatic learning of proof methods in proof planning. Technical Report CSRP-01-08, University of Birmingham, School of Computer Science, 2001.
- 58. Mateja Jamnik, Manfred Kerber, and Christoph Benzmüller. Learning method outlines in proof planning. Cognitive Science Research Paper CSRP-01-08, School of Computer Science, The University of Birmingham, 2001.
- 59. Mateja Jamnik, Manfred Kerber, and Christoph Benzmüller. Learning proof methods in proof planning. In Proceedings of the Eighth Workshop on Automated Reasoning, Bridging the Gap between Theory and Practice. University of York, March 2001.
- 60. Mateja Jamnik, Manfred Kerber, and Christoph Benzmüller. Towards learning new methods in proof planning. In In Proceedings of the CADE-17 Workshop: The role of Automated Deduction in Mathematics, 2001.
- 61. Mateja Jamnik, Manfred Kerber, and Christoph Benzmüller. Towards learning new methods in proof planning. In In Proceedings of the CADE-17 Workshop: The role of Automated Deduction in Mathematics, March 2001.
- 62. Mateja Jamnik, Manfred Kerber, and Christoph Benzmüller. Towards learning new methods in proof planning. Technical Report CSRP-00-09, University of Birmingham, School of Computer Science, June 2002.
- 63. Mateja Jamnik, Manfred Kerber, and Martin Pollet. Automatic learning in proof planning. Technical Report CSRP-02-03, The University of Birmingham, School of Computer Science, March 2002.
- 64. Mateja Jamnik, Manfred Kerber, and Martin Pollet. Automatic learning in proof planning. In Frank van Harmelen, editor, 15th European Conference on Artificial Intelligence (ECAI), pages 282–286. IOS Press, 2002.
- 65. Mateja Jamnik, Manfred Kerber, and Martin Pollet. Learnomatic: System description. In Voronkov [132], pages 150–155.
- 66. Mateja Jamnik, Manfred Kerber, Martin Pollet, and Christoph Benzmüller. Automatic learning of proof methods in proof planning. Technical Report CSRP-02-05, University of Birmingham, School of Computer Science, June 2002.
- 67. Manfred Kerber and Michaël Kohlhase, editors. CALCULEMUS 2000, Systems for Integrated Computation and Deduction, St. Andrews, Scotland, 2000. A K Peters.
- 68. Manfred Kerber and Martin Pollet. On the design of mathematical concepts. In Bob McKay and John Slaney, editors, 15th Australian Joint Conference on Artificial Intelligence, volume 2557 of LNAI, page 716. Springer, 2002.
- 69. Manfred Kerber and Martin Pollet. On the design of mathematical concepts. Technical Report CSRP-02-06, The University of Birmingham, School of Computer Science, May 2002.
- 70. Manfred Kerber and Martin Pollet. On the design of mathematical concepts. In Simon Colton and Volker Sorge, editors, Second Workshop on the Role of Automated Deduction in Mathematics (in conjunction with CADE-18 and FLoC 2002), pages 43-60, 2002.
- 71. Manfred Kerber and Martin Pollet. On the design of mathematical concepts. In Olga Caprotti and Volker Sorge, editors, 10 th Symposion on the Integration of Symbolic Computation and Mechanized Reasoning, Work in Progress Papers, volume SR-02-04 of Seki Report, pages 33-49, Saarbrücken, Germany, 2002. Fachbereich Informatik, Universität des Saarlandes.

- 72. Michaël Kohlhase. Creating OMDOC representations from LATEX. Internet Draft available at http://www.mathweb.org/omdoc, 2000.
- 73. Michaël Kohlhase. Model generation for discourse representation theory. In Werner Horn, editor, *Proceedings of of the 14th European Conference on Artifical Intelligence*, pages 441–445, Brighton, UK, 2000. John Wiley & Sons, Chichester, UK.
- 74. Michaël Kohlhase. OMDOC: An infrastructure for OPENMATH content dictionary information. Bulletin of the ACM Special Interest Group on Symbolic and Automated Mathematics (SIGSAM), 34(2), 2000.
- 75. Michaël Kohlhase. OMDOC: Towards an internet standard for the administration, distribution and teaching of mathematical knowledge. In *Proceedings AISC'2000*, 2000.
- 76. Michaël Kohlhase. OMDOC: Towards an OPENMATH representation of mathematical documents. Seki Report SR-00-02, Department of Computer Science, Saarland University, 2000. http://www.mathweb.org/omdoc.
- 77. Michaël Kohlhase and Andreas Franke. Mbase: Representing knowledge and context for the integration of mathematical software systems. Journal of Symbolic Comutation; Special Issue on the Integration of Computer algebra and Deduction Systems, 2000.
- 78. Michaël Kohlhase and Alexander Koller. Towards a tableaux machine for language understanding. In Bos and Kohlhase [22].
- 79. Paul Libbrecht. Mathematical systems accessed on the web: an overview. In Paul Wang and Norbert Kajler, editors, *Electronic Proceedings of the ISSAC-2002 Workshop on Internet Accessible Mathematical Computation (IAMC'02)*, 2002. http://www.symbolicnet.org/conferences/iamc2002/.
- 80. Paul Libbrecht, A. Frischauf, Erica Melis, M. Pollet, and C. Ullrich. Interactive exercises in the active math learning environment. In Paul Wang, Norbert Kajler, and Angel Diaz, editors, ISSAC-2001 Workshop on Internet Accessible Mathematical Computation, 2001. http://icm.mcs.kent.edu/research/iamc01proceedings.html.
- 81. Paul Libbrecht, Erica Melis, and C. Ullrich. Activemath, a web-based learning environment. *IEEE Learning Technology Newsletter*, page July, 2001. http://lttf.ieee.org/learn\_tech/issues.html.
- 82. Paul Libbrecht, Erica Melis, and C. Ullrich. The activemath learning environment. system description. In Calculemus Workshop at IJCAR, pages 173–177, 2001.
- 83. Paul Libbrecht, Erica Melis, and C. Ullrich. Generating personalized documents using a presentation planner. In ED-MEDIA 2001-World Conference on Educational Multimedia, Hypermedia and Telecommunications, pages 1124-1125, 2001.
- 84. A. Meier, C. Gomes, and E. Melis. Randomization and restarts in proof planning. In A. Cesta and D. Borrajo, editors, 6 th European Conference on Planning (ECP-01), LNCS. Springer, 2001.
- 85. Andreas Meier. Randomization and heavy-tailed behavior in proof planning. Seki Report SR-00-03, Department of Computer Science, Saarland University, Saarbrücken, Germany, 2000.
- 86. Andreas Meier. TRAMP: Transformation of Machine-Found Proofs into Natural Deduction Proofs at the Assertion Level. In D. McAllester, editor, *Proceedings of the 17th Conference on Automated Deduction (CADE-17)*, volume 1831 of *LNAI*, pages 460-464, Pittsburgh, USA, 2000. Springer Verlag, Berlin, Germany.
- 87. Andreas Meier, Erica Melis, and Martin Pollet. Towards extending domain representations. Seki Report SR-02-01, FR Informatik, Universität des Saarlandes, Saarbrücken, Germany, 2002.
- 88. Andreas Meier, Martin Pollet, and Volker Sorge. Exploring the domain of residue classes. Seki Report SR-00-04, Department of Computer Science, Saarland University, Saarbrücken, Germany, 2000.
- 89. Andreas Meier, Martin Pollet, and Volker Sorge. Classifying Residue Classes Results of a Case Study. Seki Report SR-01-01, Computer Science Department, Universität des Saarlandes, Saarbrücken, Germany, December 2001. Electronic Version at http://www.ags.uni-sb.de/~sorge/publications/2001/SR-01-01.ps.gz.
- 90. Andreas Meier, Martin Pollet, and Volker Sorge. Exploring the Domain of Residue Classes. In B. Buchberger, editor, Workshop on Computer Algebra and Automated Theorem Proving: Interactions, held on the Eight International Conference on Computer Aided Systems Theory (EUROCAST 2001), 2001.
- 91. Andreas Meier, Martin Pollet, and Volker Sorge. Comparing approaches to the exploration of the domain of residue classes. *Journal of Symbolic Computation, Special Issue on the Integration of Automated Reasoning and Computer Algebra Systems*, 34(4):287-306, October 2002. Steve Linton and Roberto Sebastiani, eds.
- 92. Andreas Meier and Volker Sorge. Exploring Properties of Residue Classes. In M. Kerber and M. Kohlhase, editors, *Proceedings of the Calculemus Symposium 2000*, St. Andrews, United Kingdom, 6-7 August 2000. A K Peters, New York, NY, USA.
- 93. Andreas Meier and Volker Sorge. Exploring the Domain of Residue Classes. In S. Colton, U. Martin, and V. Sorge, editors, Workshop on The Role of Automated Deduction in Mathematics at CADE-17, pages 50-54, Pittsburgh, PA, USA, 20-21 June 2000.
- 94. Andreas Meier, Volker Sorge, and Simon Colton. Employing theory formation to guide proof planning. In Calmet et al. [24], pages 275–289.
- 95. Erica Melis. Activemath: Web-based environment for the dynamic generation of mathematics documents employing external systems. In 10. Arbeitstreffen der GI-Fachgruppe 1.1.5 "Intelligente Lehr-/Lernsysteme", pages 110–117. debis, 2000.
- 96. Erica Melis. The 'interactive textbook' project. In Proceedings of CADE-17 workshop on deduction in Education, pages 26-34, 2000.

- 97. Erica Melis. User model description. Technical report, DFKI, 2001.
- 98. Erica Melis. Call for a common web-repository of interactive exercises. In *Internet-Accessible Mathematical Computation*, 2002.
- 99. Erica Melis. Knowledge representation for web-based user-adaptive education systems. In *BMBF-workshop:* Standardisierung im eLearning, pages 78–81, April 2002.
- 100. Erica Melis, Eric Andres, Georgi Goguadze, Paul Libbrecht, Martin Pollet, and Carsten Ullrich. Activemath: System description. In Johanna D. Moore, Carol Redfield, and W. Lewis Johnson, editors, Artificial Intelligence in Education, pages 580-582, Amsterdam, 2001. IOS Press.
- 101. Erica Melis and Erik Andres. About the global suggestion mechanisms in ActiveMath. In ITS-02 Workshop on Creating Diagnostic Assessments, pages 13-22, 2002.
- 102. Erica Melis, Jochen Büdenbender, E. Andres, Adrian Frischauf, G. Goguadze, Paul Libbrecht, M. Pollet, and C. Ullrich. Activemath: A generic and adaptive web-based learning environment. Artificial Intelligence and Education, 12(4), 2001.
- 103. Erica Melis, Jochen Büdenbender, Erik Andres, Adrian Frischauf, Georg Goguadse, Paul Libbrecht, Martin Pollet, and Carsten Ullrich. Knowledge representation and management in Activemath. International Journal on Artificial Intelligence and Mathematics, Special Issue on Management of Mathematical Knowledge, 2002. to appear.
- 104. Erica Melis, Jochen Büdenbender, G. Goguadze, Paul Libbrecht, and C. Ullrich. Knowledge representation and management in activemath. In *LLWA Tagungsband der GI-Workshopwoche "Lernen Lehren Wissen Adaptivität"*, Research Reports, pages 173 179. University of Dortmund, October 2001.
- 105. Erica Melis, Jochen Büdenbender, G. Goguadze, Paul Libbrecht, and C. Ullrich. Knowledge representation and management in Activement. To appear in the Proceedings of MKM'01 in Annals of Mathematics and Artificial Intelligence, 2002.
- 106. Erica Melis and Armin Fiedler. On the benefit of expert services in mathematics education systems. In B. Du Boulay, editor, Proceedings of ITS-2000 workshop on Modeling Human Teaching Tactics and Strategies, pages 84-85, Montreal, 2000.
- 107. Erica Melis, Georg Goguadse, Paul Libbrecht, and Carsten Ullrich. Wissensmodellierung und -nutzung in ActiveMath. KI, to appear(1):-, 2003.
- 108. Erica Melis and Helmut Horacek. Dialog issues for a tutor system incorporating expert problem solvers. In R. Friedman and C. Rose, editors, AAAI Fall Symposium on Building Dialog Systems for Tutorial Applications, pages 37–44. AAAI, 2000.
- 109. Erica Melis and Andreas Meier. Proof planning with multiple strategies. In J. Loyd, V. Dahl, U. Furbach, M. Kerber, K. Lau, C. Palamidessi, L.M. Pereira, Y. Sagivand, and P. Stuckey, editors, First International Conference on Computational Logic, volume 1861 of Lecture Notes on Artificial Intelligence, pages 644-659. Springer-Verlag, 2000.
- 110. Erica Melis and Martin Pollet. Domain knowledge for search heuristics in proof planning. In AIPS 2000 workshop: Analyzing and Exploiting Domain Knowledge, pages 12-15, 2000.
- 111. Erica Melis and Volker Sorge. Specialized External Reasoners in Proof Planning. Seki Report SR-00-01, Computer Science Department, Universität des Saarlandes, Saarbrücken, Germany, January 2000.
- 112. Erica Melis, Jürgen Zimmer, and Tobias Müller. Extensions of constraint solving for proof planning. In W. Horn, editor, European Conference on Artificial Intelligence, pages 229–233, 2000.
- 113. Erica Melis, Jürgen Zimmer, and Tobias Müller. Integrating constraint solving into proof planning. In Ringeissen, editor, Frontiers of Combining Systems, Fro Cos-2000, Lecture Notes on Artificial Intelligence. Springer, 2000
- 114. Immanuël Normann. Prototype user interface for an interactive theorem prover. In Jürgen Zimmer and Christoph Benzmüller, editors, Calculemus Autumn School: Student Poster Abstracts, volume SR-02-06 of SEKI Report, pages 91-94, Saarbrücken, Germany, 2002. Fachbereich Informatik, Universität des Saarlandes.
- 115. Manfred Pinkal and Michaël Kohlhase. Feature logic for dotted types: A formalism for complex word meanings. In Proceedings of the 38th Annual Meeting of the Association for Computational Linguistics, Hongkong, 2000.
- 116. Martin Pollet. Frame-base representation for mathematical concepts. In Jürgen Zimmer and Christoph Benzmüller, editors, Calculemus Autumn School: Student Poster Abstracts, volume SR-02-06 of Seki Report, pages 101–104, Saarbrücken, Germany, 2002. Fachbereich Informatik, Universität des Saarlandes.
- 117. Jörg Siekmann, Christoph Benzmüller, Vladimir Brezhnev, Lassaad Cheikhrouhou, Armin Fiedler, Andreas Franke, Helmut Horacek, Michaël Kohlhase, Andreas Meier, Erica Melis, Markus Moschner, Immanuël Normann, Martin Pollet, Volker Sorge, Carsten Ullrich, Claus-Peter Wirth, and Jürgen Zimmer. Proof development with ΩMEGA. In Voronkov [132], pages 143–148.
- 118. Jörg Siekmann, Christoph Benzmüller, Armin Fiedler, Andreas Franke, George Goguadze, Helmut Horacek, Michaël Kohlhase, Paul Libbrecht, Andreas Meier, Erica Melis, Martin Pollet, Volker Sorge, Carsten Ullrich, and Jürgen Zimmer. Adaptive course generation and presentation. In P. Brusilovski, editor, Proceedings of the Fifth International Conference on Intelligent Tutoring Systems—Workshop W2: Adaptive and Intelligent Web-Based Education Systems, pages 54-61, Montreal, 2000.

- 119. Jörg Siekmann, Christoph Benzmüller, Armin Fiedler, Andreas Franke, Helmut Horacek, Paul Libbrecht, Michaël Kohlhase, Andreas Meier, Erica Melis, Martin Pollet, Volker Sorge, Carsten Ullrich, and Jürgen Zimmer. Adaptive course generation and presentation. In P. Brusilovski, editor, *Proceedings of ITS-2000 workshop on Adaptive and Intelligent Web-Based Education Systems*, pages 54–61, Montreal, 2000.
- 120. Jörg Siekmann, Christoph Benzmüller, Armin Fiedler, Andreas Meier, Immanuël Normann, and Martin Pollet. Proof development with  $\Omega$ MEGA: The irrationality of  $\sqrt{2}$ . Journal of Automated Reasoning Special Issue on Mechanising and Automating Mathematics, submitted.
- 121. Jörg Siekmann, Christoph Benzmüller, Armin Fiedler, Andreas Meier, and Martin Pollet. Proof development with  $\Omega_{\text{MEGA:}} \sqrt{2}$  is irrational. In Proceedings of the 9th International Conference on Logic for Programming Artificial Intelligence and Reasoning (LPAR), 2002.
- 122. Volker Sorge. Non-Trivial Symbolic Computations in Proof Planning. In Hélène Kirchner and Christophe Ringeissen, editors, Frontiers of combining systems: Third International Workshop, Fro CoS 2000, volume 1794 of LNCS, pages 121–135, Nancy, France, 22-24 March 2000. Springer Verlag, Berlin, Germany.
- 123. Volker Sorge. A Blackboard Architecture for the Integration of Reasoning Techniques into Proof Planning. PhD thesis, Computer Science Department, Universität des Saarlandes, Saarbrücken, Germany, November 2001.
- 124. Janina Strutz and Gerhard Degel. Offene Übungsaufgaben und Praktika im e-Learning Einbindung, Auswertung und Bewertung im Tutorsystem DaMiT. Publikation 001, Hochschule Wismar, Universität des Saarlandes, Germany, September 2002.
- 125. Frank Theiß and Volker Sorge. Automatic generation of algorithms and tactics. In Caprotti and Sorge [25], pages 74–75.
- 126. Bernd Tschiedel, Bernhard Thalheim, and Oleg Rostanin. Szenario-basiertes e-learning für adaptive inhaltspräsentation. Publikation 002, TU Cottbus, Universität des Saarlandes, Germany, September 2002.
- 127. Carsten Ullrich. Analogie im Beweisplanen. Master's thesis, Department of Computer Science, Saarland University, 2000.
- 128. Carsten Ullrich and Erica Melis. The poor man's eyetracker in Activemath. In Proceedings of the World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education (eLearn-2002), volume 4, pages 2313–2316, 2002.
- 129. Bao Q. Vo and Norman Foo. Solving the qualification problem (in the presence of the frame problem). In M. Stumptner, D. Corbett, and M. Brooks, editors, *Joint Conference on Artificial Intelligence*, AI'01 Proceedings, pages 519-531. Springer-Verlag, Berlin-Heidelberg, 2001.
- 130. Bao Q. Vo and Norman Foo. Solving the ramification problem: Causal propagation in an argumentation-theoretic approach. In Mitsuru Ishizuka and Abdul Sattar, editors, *Pacific Rim International Conferences on Artificial Intelligence*, *PRICAI 2002 Proceedings*, pages 49–59. Springer-Verlag, Berlin-Heidelberg, 2002.
- 131. Bao Q. Vo, Abhaya Nayak, and Norman Foo. A syntax-based approach to reasoning about action: Preliminary report. In Second Australasian Workshop on Computational Logic 2001 Proceedings, pages 1–10, 2001.
- 132. Andrei Voronkov, editor. Proceedings of the 18th International Conference on Automated Deduction, number 2392 in LNAI. Springer Verlag, 2002.
- 133. Claus-Peter Wirth. Descente infinie + deduction. Extd. version Dec. 13, 2002, http://ags.uni-sb.de/~cp/p/tab99/new.html. Research Report (green/grey series) 737/2000, FB Informatik, Univ. Dortmund, 2000.
- 134. Claus-Peter Wirth. History and future of implicit and inductionless induction: Beware the old jade and the zombie! In Festschrift in Honour of Jörg Siekmann, LNAI, 2002.
- 135. Claus-Peter Wirth. A new indefinite semantics for hilbert's epsilon. In Uwe Egly and Christian G. Fermüller, editors, Automated Reasoning with Analytic Tableaux and Related Methods. International Conference, TA-BLEAUX 2002, number 2381 in Lecture Notes in Artificial Intelligence, pages 298–314. Springer, 2002.
- 136. Jürgen Zimmer. Contstraintlösen für Beweisplanung. Master's thesis, Department of Computer Science, Saarland University, 2000.
- 137. Jürgen Zimmer, A. Armando, and C. Giromini. Towards mathematical agents combining MATHWEB-sb and LBA. In *Proceedings of the 9th CALCULEMUS Symposium 2001*, pages 21–23, Siena (Italy), 2001.
- 138. Jürgen Zimmer and Louise Dennis. Inductive theorem proving and computer algebra in the MATHWEB software bus. In *Proceedings of the 10<sup>th</sup> CALCULEMUS Symposium 2002*, Marseilles, July 2002.
- 139. Jürgen Zimmer and Christoph Benzmüller (Eds.). CALCULEMUS Autumn School 2002: Student Poster Abstracts. SEKI Technical Report SR-02-06, Fachbereich Informatik, Universität des Saarlandes, Saarbrücken, Germany, 2002.
- 140. Jürgen Zimmer, Andreas Franke, Simon Colton, and Geoff Sutcliffe. Integrating hr and tptp2x into MATHWEB to compare automated theorem provers. In Voronkov [132]. Proceedings of the PaPS'02 Workshop, in.
- 141. Jürgen Zimmer and Michaël Kohlhase. System description: The MATHWEB software bus for distributed mathematical reasoning. In Voronkov [132].