

List of publications

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Theses

- C. Kirchner, H. Kirchner:
"Contribution à la résolution d'équations dans les algèbres libres et les variétés équationnelles d'algèbres"
Thèse de 3eme cycle, Université de Nancy I
Mars 1982
- H. Kirchner:
"Preuves par complétion dans les variétés d'algèbres"
Thèse de Doctorat d'Etat en Informatique, Université de Nancy I
Juin 1985

Proceedings and special issues

1. "Algebraic and Logic Programming"
Lecture Notes in Computer Science, vol.463, 1990.
H. Kirchner, W. Wechler (eds).
2. Numéro spécial de Theoretical Computer Science:
"Selected papers of the 2nd International Conference on Algebraic and Logic Programming, Nancy, France, October 1-3, 1990"
Theoretical Computer Science, Logic, semantics and theory of programming, volume 105, number 1.
H. Kirchner and W. Wechler (eds.)
3. "Proceedings of the 3rd International Conference on Algebraic and Logic Programming, Volterra (Italy)"
Lecture Notes in Computer Science, vol.632,
H. Kirchner, and G. Levi (eds), Springer Verlag, 1992.
4. Numéro spécial de Annals of Mathematics and Artificial Intelligence:
"Theorem proving and logic Programming"
Vol.8, No.III-IV, 1993.
H. Kirchner and J.-L. Lassez (eds.)
5. Numéro spécial de Applicable Algebra in Engineering, Communication and Computation,

- “Algebraic and Logic Programming”
 Vol.5, No.3/4, 1994
 H. Kirchner and G. Levi (eds.)
6. “Trees in Algebra and Programming - CAAP 96”
 Proc. 21st International Colloquium , Linköping, Sweden, April 1996. Lecture Notes
 in Computer Science, vol.1059, H. Kirchner (ed.) Springer Verlag, 1996.
 7. Numéro spécial de Theoretical Computer Science:
 “Special Issue on the 21st Colloquium on Trees in Algebra and Programming, CAAP’96”
 Theoretical Computer Science B, Logic, semantics and theory of programming, vol-
 ume 190, number 1-2, january 1998.
 H. Kirchner (ed.)
 8. “WRLA’98, Proceedings of the 2nd international workshop on rewriting logic and
 its applications”
 Electronic Notes in Theoretical Computer Science, vol.15,
 C. Kirchner, H. Kirchner (eds), 1998. (<http://www.elsevier.nl/locate/entcs>)
 9. “Automated Deduction - CADE-15”
 Proc. 15th International Conference on Automated Deduction, Lindau, Germany,
 July 1998. Lecture Notes in Artificial Intelligence, vol.1421, C. Kirchner and H. Kirchner
 (ed.) 1998.
 10. “Algebraic System Specification and Development: Survey and Annotated Bibliog-
 raphy, 2nd edition”
 Monographs of the Bremen Institute of Safe Systems, vol.3, Shaker Verlag,
 M. Cerioli, M. Gogolla, H. Kirchner, B. Krieg-Brückner, Z. Qian, M. Wolf (eds.),
 1999.
 11. “Frontiers of Combining Systems FroCoS’2000” Lecture Notes in Artificial Intelli-
 gence, vol.1794,
 H. Kirchner and C. Ringeissen (eds), Springer Verlag, 2000.
 12. Numéro spécial de Annals of Mathematics and Artificial Intelligence:
 “Strategies in Automated Deduction”
 B.Gramlich, H.Kirchner and F.Pfenning(eds.), vol.29 (1-4), February 2001.
 13. “Algebraic Methodology and Software Technology”
 Lecture Notes in Computer Science, vol.2422, H.Kirchner, C.Ringeissen (eds), Springer-
 Verlag, 2002.
 14. “Rewriting, Computation and Proof (Essays Dedicated to Jean-Pierre Jouannaud
 on the Occasion of His 60th Birthday)”
 Lecture Notes in Computer Science, vol.4600, H.Comon, C.Kirchner, H.Kirchner
 (eds), Springer-Verlag, 2007.
 15. “Proceedings International Workshop on Strategies in Rewriting, Proving, and Pro-
 gramming (IWS 2010)”
 Electronic Proceedings in Theoretical Computer Science, vol.44, DOI: 10.4204/EPTCS.44,
 H.Kirchner, C.A.Munoz (eds), 2010.

Book Chapters

1. H. Kirchner:
“Some extensions of rewriting”
in *Term rewriting*, H.Comon & JP.Jouannaud (eds.), Lecture Notes in Computer Science 909, pp.54–73. Proc. Ecole de Printemps d’Informatique Théorique sur la Réécriture (1993).
2. H. Kirchner:
“On the Use of Constraints in Automated Deduction”
in *Constraint programming: Basic and Trends*, A.Podelski (ed.), Lecture Notes in Computer Science 910, pp.128–146. Proc. Ecole de Printemps d’Informatique Théorique sur les Contraintes (1994).
3. C. Kirchner, H. Kirchner, M. Vittek:
“Designing Constraint Logic Programming Languages using Computational Systems”
in *Principles and Practice of Constraint Programming. The Newport Papers*, MIT Press, P. Van Hentenryck, V. Saraswat (ed.), pp.131-158, 1995.
4. H. Kirchner:
“Orderings in Automated Theorem Proving”
in *Proceedings of Symposia in Applied Mathematics, Mathematical Aspects of Artificial Intelligence*,
vol.55, American Mathematical Society, F. Hoffman (ed.), pp.55–95, 1998.
5. H. Kirchner:
“Term Rewriting”
in *Algebraic Foundations of Systems Specifications*,
IFIP State-of-the-Art Reports, E. Astesiano, H.-J. Kreowski, B. Krieg-Brückner (eds.), ch.9, pp.273–320, Springer, 1999.
6. C. Kirchner, H. Kirchner, A. Megreliş:
“OBJ for OBJ” ,
in *Software Engineering with OBJ: Algebraic Specification in Action*, J.A. Goguen, G. Malcolm (eds), ch.6, pp.307–330, Kluwer, Boston, 2000.
7. C. Kirchner, H. Kirchner, F. Nahon:
“Narrowing Based Inductive Proof Search”
Invited paper at the workshop in Honor of Harald Ganzinger, Saarbrücken, Germany, 3-4 june 2005, in *Programming Logics*, A. Voronkov and C. Weidenbach (eds.), Lecture Notes in Computer Science 7797, pp. 216-238, Springer Berlin Heidelberg, 2013. DOI:10.1007/978-3-642-37651-1_9
8. O. Andrei, L. Ibănescu, H. Kirchner:
“Non-intrusive Formal Methods and Strategic Programming for a Chemical Application”
J. Goguen Festschrift, K. Futatsugi et al. (eds.), Lecture Notes in Computer Science 4060, pp.194–215, 2006.

9. I. Gnaedig, H. Kirchner:
 “Narrowing, Abstraction and Constraints for Proving Properties of Reduction Relations”
 in *Rewriting, Computation and Proof (Essays Dedicated to Jean-Pierre Jouannaud on the Occasion of His 60th Birthday)*, H.Comon, C.Kirchner, H.Kirchner (eds), Lecture Notes in Computer Science 4600, pp.44–67, 2007.
10. C. Kirchner, F. Kirchner, H. Kirchner:
 “Strategic Computations and Deductions”,
 in *Reasoning in Simple Type Theory. Festschrift in Honor of Peter B. Andrews on his 70th Birthday*, C. Benzmüller, C. Brown, J. Siekmann and R. Statman (eds.), Studies in Logic and the Foundations of Mathematics, vol. 17, pp. 339–364. College Publications, 2008.
11. H. Huang, H. Kirchner:
 “Component-based Security Policy Design with Colored Petri Nets”,
 in *Semantics and Algebraic Specification (Essays Dedicated to Peter D. Mosses on the Occasion of His 60th Birthday)*, J.Palsberg (ed.), Lecture Notes in Computer Science 5700, pp.21–42, Springer 2009.
12. C. Kirchner, H. Kirchner:
 “Equational Logic and Rewriting”,
 in *Computational Logic, vol. 9 of Handbook of the History in Logic*, D.Gabbay, J.Siekmann and J.Woods (eds.), Elsevier B.V., North-Holland, pp. 255–282, 2014. ISBN 978-0-08-093067-1.
13. H. Kirchner:
 “Rewriting Strategies and Strategic Rewrite Programs”,
 in *Logic, Rewriting, and Concurrency (LRC 2015)*, Festschrift Symposium in Honor of José Meseguer, Urbana, Illinois, USA, September 23-25, 2015, N.Marti-Oliet, P.Olveczky, C.Talcott (eds.), Lecture Notes in Computer Science , pp. 380–403, Springer 2015.

Journals

1. J.-P. Jouannaud, H. Kirchner:
 “Construction d’un plus petit ordre de simplification stable par instanciation”
 RAIRO Informatique théorique, vol. 18, no. 3, pp.-191-207, 1984.
2. J.-P. Jouannaud, H. Kirchner:
 “Completion of a set of rules modulo a set of equations”
 SIAM Journal of Computing, vol.15, no.4, pp. 1155–1194, 1986.
3. C. Kirchner, H. Kirchner:
 “REVEUR-3: Implementation of a general completion procedure parameterized by built-in theories and strategies”
 Science of Computer Programming, vol.20, no.8, pp.69–86, 1986.
4. H. Kirchner:
 “Schematization of infinite sets of rewrite rules generated by divergent completion

- processes”
Theoretical Computer Science, vol.67, no.2-3, pp.303–332, 1989.
5. I. Gnaedig and C. Kirchner and H. Kirchner:
“Equational Completion in Order Sorted Algebras”
Theoretical Computer Science, vol.72, pp.169–202, 1990.
 6. C. Kirchner, H. Kirchner, M. Rusinowitch:
“Deduction with symbolic constraints”
Invited Paper - Revue de l’Intelligence Artificielle, vol.4 (3), pp.9–52, 1990.
 7. M. Hermann, C. Kirchner, H. Kirchner:
“Implementations of Term Rewriting Systems”
Computer Journal, British Computer Society, vol.34(1), pp.20–33, 1991.
 8. J.-P. Jouannaud, C. Kirchner, H. Kirchner, A. Megrelis:
“Programming with equalities, subsorts, overloading and parameterization in OBJ”
Journal of Logic Programming, vol.12(3), pp.257–280, 1992.
 9. J. Hsiang, H. Kirchner, P. Lescanne, M. Rusinowitch:
“The term rewriting approach to automated theorem proving”
Journal of Logic Programming, vol.14(1 & 2), pp.71–100, 1992.
 10. H. Kirchner, C. Ringeissen:
“Combining Symbolic Constraint Solvers on Algebraic Domains”
Journal of Symbolic Computations, vol.18(2), pp.113–155, 1994.
 11. C. Hintermeier, C. Kirchner, H. Kirchner:
“Dynamically-Typed Computations for Order-Sorted Equational Presentations”
Journal of Symbolic Computations, vol.25(4), pp.455–526, 1998.
 12. P. Borovanský, C. Kirchner, H. Kirchner, C. Ringeissen:
“Rewriting with strategies in ELAN: a functional semantics”
in *International Journal of Foundations of Computer Science*, 12(1):69-98, World Scientific Publishing Company, 2001.
 13. H. Kirchner, P.E. Moreau:
“Promoting rewriting to a programming language: A compiler for non-deterministic rewrite programs in associative-commutative theories”.
J.Functional Programming, 11(2):207-251, March 2001.
 14. H. Kirchner:
“Combining assisted and automated deduction”.
Annals of Mathematics and Artificial Intelligence. Tenth Anniversary, volume 28 (1-4), pp.21–27, 2000.
 15. H. Kirchner, P.D. Mosses: “Algebraic Specifications, Higher-Order Types, and Set-Theoretic Models”
(Full version) Journal of Logic and Computation, 11(3):451-479, June 2001.
 16. P. Borovansky, C. Kirchner, H. Kirchner, P.E. Moreau:
“ELAN from a rewriting logic point of view”.
Theoretical Computer Science, 285(2), 2002.

17. E. Astesiano, M. Bidoit, H. Kirchner, B. Krieg-Brückner, P.D. Mosses, D. Sanella:
“CASL: The Common Algebraic Specification Language”
J.L.Fiadero (ed.). Special issue of Theoretical Computer Science on Current trends
in Algebraic Development Techniques. Elsevier, Theoretical Computer Science,
286(2), september 2002, pp.153–196.
18. Q.H. Nguyen, C. Kirchner, H. Kirchner: “External rewriting for skeptical proof
assistants” Journal of Automated Reasoning, 29(3-4), 2002, pp.309–336
19. I. Gnaedig, H. Kirchner: “Termination of rewriting under strategies”. ACM Trans-
actions Of Computational Logic, 10 (2), 56 p., feb. 2009.
20. F. Nahon, C. Kirchner, H. Kirchner, P. Brauner:
“Inductive Proof Search Modulo”
Annals of Mathematics and Artificial Intelligence Vol.55, No.1, pp.123-154, 2009
21. H. Huang, H. Kirchner, S. Liu, W. Wu :
“Handling Inheritance Violation for Secure Interoperation of Heterogeneous Sys-
tems”
Int. J. Security and Networks, Vol. 4, No. 4, pp.223-233, 2009
22. Duc-Khanh Tran, C. Ringeissen, S. Ranise, H. Kirchner :
“Combination of Convex Theories: Modularity, Deduction Completeness, and Ex-
planation”
Journal of Symbolic Computation, Vol. 45(2), February 2010, pp. 261-286.
23. H. Huang, H. Kirchner :
“Formal Specification and Verification of Modular Security Policy based on Colored
Petri Nets”
IEEE Transactions on Dependable and Secure Computing (ITDSCM), Vol.8(6),
November-December 2011, pp. 852-865.
24. I. Gnaedig, H. Kirchner :
“Proving weak properties of rewriting”
Theoretical Computer Science, Vol. 412(34), pp. 4405-4438, August 2011.
25. H. Huang, H. Kirchner :
“Secure Interoperation Design in Multi-domain Environments based on Colored Petri
Nets”
Elsevier, Inform. Sci. (2012), <http://dx.doi.org/10.1016/j.ins.2012.09.027>

Vulgarization

- D. Galmiche, H. Kirchner:
“Les langages fonctionnels et logiques”
Courrier du CNRS, Dossiers Scientifiques: La recherche en Informatique, février
1993.
- Notes in ERCIM News.
- Lettres du LORIA (éditeur en chef, 2001-2006)

- C. Kirchner, H. Kirchner:
“Sécurité informatique. Peut-on se fier au numérique ?” Les cahiers de l’INRIA, La Recherche - mai 2008 - N0 419.

International Conferences

1. J.-P. Jouannaud, C. Kirchner, H. Kirchner:
“Incremental unification in equational theories”
Proc. of the Allerton conference, 1982.
2. J.-P. Jouannaud, C. Kirchner, H. Kirchner:
“Incremental Construction of Unification Algorithms in Equational Theories”
Proc. International Colloquium on Automata, Languages and Programming, Barcelone, 1983,
Lecture Notes in Computer Science, vol.154, pp.361–373.
3. J.-P. Jouannaud, H. Kirchner, J.-L. Rémy :
“Church-Rosser Properties of Weakly Terminating Term Rewriting Systems”
Proc. 8th International Joint Conference on Artificial Intelligence, Karlsruhe, RFA, pp. 909–915, 1983
4. H. Kirchner:
“A general inductive completion algorithm and application to abstract data types”
Proc. 7th International Conference on Automated Deduction, Napa Valley (California, USA), 1984,
Lecture Notes in Computer Science, vol.170, pp.282–302.
5. J.-P. Jouannaud, H. Kirchner:
“Completion of a set of rules modulo a set of equations”
Proc. 11th ACM SIGACT-SIGPLAN Symposium on Principles of Programming Languages (POPL ’84), Salt Lake City (Utah, USA), pp. 83-92, January 1984.
6. C. Kirchner, H. Kirchner:
“Implementation of a general completion procedure parameterized by built-in theories and strategies”
Proc. EUROCAL Conference, Linz (Austria), 1985,
Lecture Notes in Computer Science, vol.204.
7. P. Rety, C. Kirchner, H. Kirchner, P. Lescanne:
“NARROWER: a new algorithm for unification and its application to Logic Programming”
Proc. 1st Conference on Rewriting Techniques and Applications, Dijon (France), 1985,
Lecture Notes in Computer Science, vol.202, pp.141–157.
8. H. Kirchner:
“Schematization of infinite sets of rewrite rules. Application to the divergence of completion processes”,
Proc. Second Conference on Rewriting Techniques and Applications, Bordeaux (France), 1987,
Lecture Notes in Computer Science, vol.256, pp.180–191.

9. J.A. Goguen, C. Kirchner, H. Kirchner, A. Megrelis, J. Meseguer, T. Winkler:
 “An Introduction to OBJ-3”,
 Proc. 1st Workshop on Conditional Term Rewriting Systems, Orsay (France), 1988,
 Lecture Notes in Computer Science, vol.308, pp.258–263.
10. I. Gnaedig, C. Kirchner, H. Kirchner:
 “Equational Completion in Order-sorted Algebras. Extended Abstract”,
 Proc.13th Colloquium on Trees in Algebras and Programming, Nancy, (France),
 1988,
 Lecture Notes in Computer Science, vol.299, pp.165–184.
11. C. Kirchner, H. Kirchner, J. Meseguer:
 “Operational semantics of OBJ-3”,
 Proc. ICALP’88, Tampere (Finlande),
 Lecture Notes in Computer Science, vol.317, pp.287–301.
12. J.-P. Jouannaud, C. Kirchner, H. Kirchner, A. Megrelis:
 “OBJ: Programming with equalities, subsorts, overloading and parameterization”
 Proc. 1st International Workshop on Algebraic and Logic Programming, 1988,
 Akademie-Verlag, vol.49, pp.41–52.
13. C. Kirchner, H. Kirchner:
 “Constrained Equational Reasoning”
 Proc. ACM-SIGSAM 1989 International Symposium on Symbolic and Algebraic
 Computation, 1989, ACM Press, pp.382–389.
14. M. Hermann, H. Kirchner:
 “Meta-rule Synthesis from Crossed Rewrite Systems”
 Proc. 2nd Workshop on Conditional and Typed Rewrite Systems, Lecture Notes in
 Computer Science, vol.516, pp.143–154, 1991.
15. H. Kirchner:
 “Proofs in parameterized specifications”
 Proc. Conference on Rewriting Techniques and Applications, Lecture Notes in Com-
 puter Science, vol.488, pp.174–187, 1991.
16. H. Kirchner, C. Ringeissen:
 “A constraint solver in finite algebras and its combination with unification algo-
 rithms”
 Proc. Joint International Conference and Symposium on Logic Programming,
 K. Apt (ed.), MIT Press, pp.225–239, 1992.
17. C. Kirchner, H. Kirchner, M. Vittek: “Implementing Computational Systems with
 Constraints”
 Proceedings of the first Workshop on Principles and Practice of Constraint Program-
 ming, Providence (R.I., USA), P.Kanellakis, J.-L.Lassez, W.Saraswat (eds.), Brown
 University, pp. 166–175, 1993.
18. C. Hintermeier, C. Kirchner, H. Kirchner:
 “Dynamically-Typed Computations for Order-Sorted Equational Presentations (Ex-
 tended Abstract)”

- Proc. 21st International Colloquium on Automata, Languages and Programming (ICALP 94), S. Abiteboul and E. Shamir (eds.) Lecture Notes in Computer Science, vol.820, pp.450–461, 1994.
19. H. Kirchner, C. Ringeissen:
 “Incremental constraint solving by narrowing in combined algebraic domains”
 Proc. 11th International Conference on Logic Programming (ICLP’94), P. Van Hentenryck (ed.), MIT Press, pp.617–631, 1994.
 20. H. Kirchner, P.-E. Moreau:
 “Prototyping completion with constraints using computational systems” (System Presentation)
 Proc. RTA’95, J.Hsiang (ed.), Lecture Notes in Computer Science 914, pp.438–443.
 21. C. Hintermeier, C. Kirchner, H. Kirchner:
 “Sort Inheritance for Order-Sorted Equational Presentations”
 “Recent Trends in Data Types Specification. 10th Workshop on Specification of Abstract Data Types joint with the 5th COMPASS Workshop S.Margherita, Italy, May/June 1994. Selected papers.” E. Astesiano, G. Reggio, A. Tarlecki (eds.), Lecture Notes in Computer Science vol.906, pp.319–335, april 1995, Springer Verlag.
 22. C. Hintermeier, H. Kirchner, P. Mosses:
 “ R^n - and G^m -logics”
 Proc. HOA’95, “Higher-Order Algebra, Logic, and Term Rewriting”, G.Dowek, J.Heering, K.Meinke, and B.Möller (eds.), Lecture Notes in Computer Science, vol.1074, pp.90–108, Springer Verlag, 1996.
 23. C. Hintermeier, H. Kirchner, P. Mosses:
 “Combining Algebraic and Set Theoretic Specifications”
 “Recent Trends in Data Type Specification”, Proc. 11th Workshop on Specification of Abstract Data Types joint with the 9th general COMPASS workshop. Oslo, Norway, September 1995. Selected papers.
 M.Haveraaen, O.Owe and O-J.Dahl (eds.), Lecture Notes in Computer Science, vol.1130, pp.255–273, Springer Verlag, 1996.
 24. P. Borovansky, C. Kirchner, H. Kirchner, P.E. Moreau, M. Vittek:
 “ELAN: A logical framework based on computational systems”
 Proceedings of the first international workshop on rewriting logic, Asilomar (California), Electronic Notes in Theoretical Computer Science, vol.4, pp.35–50, J. Meseguer (ed), 1996. Report CRIN : 96-R-188.
<http://www.elsevier.nl/locate/entcs>
 25. P. Borovansky, C. Kirchner, H. Kirchner:
 “Controlling rewriting by rewriting”
 Proceedings of the first international workshop on rewriting logic, Asilomar (California), Electronic Notes in Theoretical Computer Science, vol.4, pp.168–188, J. Meseguer (ed), 1996. Report CRIN : 96-R-189.
 26. H. Kirchner, P.E. Moreau:
 “A reflective extension of ELAN”

- Proceedings of the first international workshop on rewriting logic, Asilomar (California), *Electronic Notes in Theoretical Computer Science*, vol.4, pp.148–167, J. Meseguer (ed), 1996. Report CRIN : 96-R-191.
27. P. Borovanský, C. Kirchner, H. Kirchner:
 “Rewriting as a Unified Specification Tool for Logic and Control: The ELAN language”
 Proceedings of International Workshop on Theory and Practice of Algebraic Specifications ASF+SDF 97, Springer-Verlag, *Electronic Workshops in Computing Series*, World Scientific. Amsterdam, 1997.
<http://www.springer.co.uk/ewic/workshops/ASFSD97/>
 28. P. Borovanský, H. Kirchner:
 “Strategies of ELAN: meta-interpretation and partial evaluation”
 Proceedings of International Workshop on Theory and Practice of Algebraic Specifications ASF+SDF 97, Springer-Verlag, *Electronic Workshops in Computing Series*, World Scientific. Amsterdam, 1997.
<http://www.springer.co.uk/ewic/workshops/ASFSD97/>
 29. P.E. Moreau, H. Kirchner:
 “Compilation Techniques for Associative-Commutative Normalisation”, Proceedings of International Workshop on Theory and Practice of Algebraic Specifications ASF+SDF 97, Springer-Verlag, *Electronic Workshops in Computing Series*, World Scientific. Amsterdam, 1997. <http://www.springer.co.uk/ewic/workshops/ASFSD97/>
 30. P. Borovanský, C. Kirchner, H. Kirchner:
 “A functional view of rewriting and strategies for a semantics of ELAN”
 in *The Third Fuji International Symposium on Functional and Logic Programming*, World Scientific, M. Sato and Y. Toyama (ed), pp.143–67, 1998.
 31. P.E. Moreau, H. Kirchner:
 “A compiler for Rewrite Programs in Associative-Commutative Theories”, in *Principles of Declarative Programming*, Proceedings of International Conference PLILP/ALP’98. Springer-Verlag, *Lecture Notes in Computer Science*, vol.1492, pp.230–249, 1998.
 32. P. Borovansky, C. Kirchner, H. Kirchner, P.E. Moreau, C. Ringeissen:
 “An overview of ELAN”
 Proceedings of WRLA’98, the 2nd international workshop on rewriting logic and its applications, Pont-à-Mousson (France), *Electronic Notes in Theoretical Computer Science*, vol.15, C. Kirchner, H. Kirchner (eds), 1998.
<http://www.elsevier.nl/locate/entcs/volume15.html>
 33. H. Kirchner, P.E. Moreau:
 “Non-deterministic computations in ELAN”
 Recent Developements in Algebraic Specification Techniques, Proc. 13th WADT’98, Selected Papers, J.L.Fiadeiro (ed), *Lecture Notes in Computer Science*, vol.1589, pp.168–182, Springer Verlag, 1999.
 34. H. Kirchner, P.D. Mosses:
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 Proceedings of AMAST’98 – 7th International Conference on Algebraic Methodology

- and Software Technology, A.Haeberer (ed), Lecture Notes in Computer Science, vol.1548, pp.373–388, Springer Verlag, 1999.
35. H. Kirchner:
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 Proceedings of JFPLC’99 – Journées Francophones de Programmation Logique et programmation par Contraintes, F.Fages (ed), Hermes Science Publications, pp.241–248, 1999.
 36. H. Kirchner:
 “CASL Tools”
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 37. H. Dubois, H. Kirchner:
 “Rule Based Programming with Constraints and Strategies”.
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 38. H. Dubois, H. Kirchner:
 “Objects, constraints, rules and strategies in ELAN”
 Proceedings of the Workshop AMiLP’00 (Algebraic Methods in Language Processing), Iowa City (USA), mai 2000. (Invited talk).
 39. H. Kirchner, I. Gnaedig:
 “Termination and normalisation under strategies – Proofs in ELAN”
 Proceedings of the 3rd International Workshop on Rewriting Logic and its Applications, Kanazawa (Japan), september 18-20, 2000. pp 93-115. (Invited talk). Electronic Notes on Theoretical Computer Science, Number 36, Elsevier.
 40. O. Fissore, I. Gnaedig, H. Kirchner:
 “Termination of rewriting with local strategies”,
 Proceedings of the International Workshop STRATEGIES 2001-Selected Papers, Electronic Notes on Theoretical Computer Science, Number 58(2), pp. 35–54, Elsevier.
 41. O. Fissore, I. Gnaedig, H. Kirchner:
 “System presentation. CARIBOO: An Introduction Based Proof Tool for Termination with Strategies”
 Proceedings of the Fourth International Conference on Principles and Practice of Declarative Programming (PPDP’02), ACM, 2002
 42. O. Fissore, I. Gnaedig, H. Kirchner:
 “Outermost ground termination”
 Proceedings of WRLA’2002, 4th international workshop on rewriting logic and its applications, Pisa, Italy. Electronic Notes on Theoretical Computer Science 71 (16 pages).
 43. E. Deplagne, C. Kirchner, H. Kirchner, Q.H. Nguyen:
 “Proof search and proof check for equational and inductive theorems”
 Proc. 19th International Conference on Automated Deduction, Miami, USA, July 2003. Lecture Notes in Artificial Intelligence 2741, pp.297–316, Springer-Verlag.

44. O. Bournez, G-M. Côme, V. Conraud, H. Kirchner, L. Ibănescu:
 “Automated Generation of Kinetic Chemical Mechanisms Using Rewriting”
 Proc. International Conference on Computational Science ICCS’2003, Melbourne,
 2-4 june, Lecture Notes in Computer Science 2659, pp.367–376, 2003.
45. O. Bournez, G-M. Côme, V. Conraud, H. Kirchner, L. Ibănescu:
 “A Rule-Based Approach for Automated Generation of Kinetic Chemical Mecha-
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 Proc.14th International Conference on Rewriting Techniques and Applications RTA’03,
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 Proceedings of the Fifth International Conference on Principles and Practice of
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