

# List of Publications

Thomas EITER

Latest Update April 2022

## Academic Writings

- [A1] Thomas Eiter. Parallele Operationen auf  $B$ -Bäumen. Master's thesis, Institut für Angewandte Informatik und Systemanalyse, TU Wien, Austria, September 1989.
- [A2] Thomas Eiter. *On Transversal Hypergraph Computation and Deciding Hypergraph Saturation*. PhD thesis, Institut für Informationssysteme, TU Wien, Austria, October 1991.
- [A3] Thomas Eiter. *Contributions to the Complexity of Propositional Reasoning and Boolean Formula Manipulation*. Cumulative habilitation thesis, TU Wien, 1994.

## Books

- [B1] V.S. Subrahmanian, P. Bonatti, J. Dix, T. Eiter, S. Kraus, F. Ozcan, and R. Ross. *Heterogeneous Agent Systems: Theory and Implementation*. MIT Press, 2000. 640 pages. (ISBN: 0262194368).

## Edited Books and Volumes

- [E1] Franz Baader, G. Brewka, and T. Eiter, editors. *Proceedings of the 24th Annual German Conference on Artificial Intelligence/9th Austrian Conference on Artificial Intelligence (KI 2001)*, number 2174 in LNCS. Springer, 2001.
- [E2] Thomas Eiter, W. Faber, and M. Truszczynski, editors. *Proceedings of the 6th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR-01)*, number 2173 in LNCS. Springer, 2001.
- [E3] Franz Baader, G. Brewka, and T. Eiter, editors. *The European Journal on Artificial Intelligence (AI Communications): Special issue on KI-2001*. IOS Press, 2002. Volume 15, Number 1.
- [E4] Thomas Eiter and K.-D. Schewe, editors. *Proceedings of the 2nd International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2002), Salzaau Castle, Germany*, number 2284 in LNCS. Springer, 2002.
- [E5] Thomas Eiter and K.-D. Schewe, editors. *Annals of Mathematics and Artificial Intelligence: Special issue on FOIKS-2002*. Kluwer, 2004. Volume 40, Number 1-2.
- [E6] Thomas Eiter and D. Lembo, editors. *Journal of Applied Logic: Special issue on Logic-Based Methods for Information Integration*. Elsevier, June 2005. Volume 3, number 2. Preface: pp. 251–252.
- [E7] Thomas Eiter and L. Libkin, editors. *Proceedings of the 10th International Conference on Database Theory (ICDT 2005)*, number 3363 in LNCS. Springer, 2005.
- [E8] Thomas Eiter, E. Franconi, R. Hodgson, M. Kifer, and S. Stephens, editors. *Proceedings of the Second International Conference on Rules and Rule Markup Languages for the Semantic Web*. IEEE, 2006.
- [E9] Thomas Eiter and L. Libkin, editors. *ACM Transactions on Database Systems: Special section on ICDT-2005*. ACM Press, 2006. Volume 31, number 3, pp. 769–838.
- [E10] Thomas Eiter and L. Libkin, editors. *Theoretical Computer Science: Special issue on ICDT-2005*. Elsevier Sc., 2007. Volume 371, number 3. Preface: pp. 147.

- [E11] Thomas Eiter, E. Franconi, and M. Kifer, editors. *Fundamenta Informaticae: Special issue on RuleML 2006*. IOS Press, 2008. Volume 82, number 3.
- [E12] Sergio Tessaris, E. Franconi, T. Eiter, C. Gutierrez, S. Handschuh, M.-C. Rousset, and R. A. Schmid, editors. *Reasoning Web, Fifth International Summer School 2008, Bressanone Italy, August 30–September 4, 2009, Tutorial Lectures*, number 5689 in LNCS. Springer, 2009.
- [E13] Thomas Eiter, A. El Ghali, S. Fernández, S. Heymans, T. Krennwallner, and F. Lévy, editors. *Proceedings of the 1st International Workshop on Business Models, Business Rules and Ontologies (BuRO 2010), co-located RR2010 Workshop, September 21, 2010*. Ontorule Consortium, 2010. Available at [http://ontorule-project.eu/attachments/075\\_buro2010-proceedings.pdf](http://ontorule-project.eu/attachments/075_buro2010-proceedings.pdf).
- [E14] Gerd Brewka, T. Eiter, and S. McIlraith, editors. *Principles of Knowledge Representation and Reasoning: Proceedings of the Thirteenth International Conference, KR 2012, Rome, Italy, June 10-14, 2012*. AAAI Press, 2012.
- [E15] Thomas Eiter and T. Krennwallner, editors. *Reasoning Web, Eighth International Summer School 2012, Vienna Austria, September 3-8, 2012, Tutorial Lectures*, number 7487 in LNCS. Springer, 2012.
- [E16] Thomas Eiter, B. Glimm, Y. Kazakov, and M. Krötzsch, editors. *Informal Proceedings of the 26th International Workshop on Description Logics (DL-2013), Ulm, Germany, July 23-26, 2013*, volume 1014 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2013.
- [E17] Chitta Baral, G. de Giacomo, and T. Eiter, editors. *Principles of Knowledge Representation and Reasoning: Proceedings of the Fourteenth International Conference, KR 2014, Vienna, Austria, July 20-24, 2014*. AAAI Press, 2014.
- [E18] Marina de Vos, T. Eiter, F. Toni, and Y. Lierler, editors. *Technical Communications of the 31st International Conference on Logic Programming, ICLP 2015, August 31 – September 4, 2015, Cork, Ireland*, CEUR Workshop Proceedings. CEUR-WS.org, 2015. Online <http://ceur-ws.org/Vol-1433>.
- [E19] Thomas Eiter, H. Straß, M. Truszczyński, and S. Woltran, editors. *Advances in Knowledge Representation, Logic Programming, and Abstract Argumentation - Essays Dedicated to Gerd Brewka on the Occasion of His 60th Birthday*, number 9060 in Lecture Notes in Computer Science. Springer, 2015.
- [E20] Thomas Eiter and F. Toni. Introduction to the 31st International Conference on Logic Programming Special Issue. *Theory and Practice of Logic Programming*, 15(4-5):413–418, 2015.
- [E21] Daniele Dell’Aglío, D. Anicic, P. M. Barnaghi, E. D. Valle, D. L. McGuinness, L. Bozzato, T. Eiter, M. Homola, and D. Porello, editors. *Joint Proceedings of the Web Stream Processing workshop (WSP 2017) and the 2nd International Workshop on Ontology Modularity, Contextuality, and Evolution (WOMoCoE 2017) co-located with 16th International Semantic Web Conference (ISWC 2017), Vienna, Austria, October 22nd, 2017*, volume 1936 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2017. <http://ceur-ws.org/Vol-1936>.
- [E22] Daniele Dell’Aglío, E. Della Valle, T. Eiter, and M. Krötzsch, editors. *Proc. of the Stream Reasoning Workshop 2016 (SR 2016), colloacted with 15th International Semantic Web Conference (ISWC 2016), Oktober 17-18th, Kobe, Japan*, CEUR Workshop Proceedings. CEUR-WS.org, 2016. <http://ceur-ws.org/Vol-1783/>.
- [E23] Gerd Brewka, T. Eiter, and M. Truszczyński, editors. *AI Magazine: special issue on Answer Set Programming*. AAAI Press, 2016. Volume 37, number 3. Editorial pp. 5-6.
- [E24] Jeff Z. Pan, D. Calvanese, T. Eiter, I. Horrocks, M. Kifer, F. Lin, and Y. Zhao, editors. *Reasoning Web: Logical Foundation of Knowledge Graph Construction and Query Answering – 12th International Summer School 2016, Aberdeen, UK, September 5-9, 2016, Tutorial Lectures*, volume 9885 of *Lecture Notes in Computer Science*. Springer, 2017.
- [E25] Thomas Eiter and D. Sands, editors. *Proceedings of the 21st International Conferences on Logic for Programming, Artificial Intelligence and Reasoning, LPAR-21, Maun, Botswana, May 8-12, 2017*, volume 46 of *EPiC Series in Computing*. EasyChair, 2017. Online <http://easychair.org/publications/volume/LPAR-21>.
- [E26] Thomas Eiter, D. Sands, G. Sutcliffe, and A. Voronkov, editors. *IWIL@LPAR-21 Workshop and LPAR-21 Short Presentations, Maun, Botswana, May 8-12, 2017*, volume 1 of *Kalpa Publications in Computing*. EasyChair, 2017. <http://dblp.org/rec/bib/conf/lpar/2017iwil>.
- [E27] Daniele Dell’Aglío, T. Eiter, F. Heintz, and D. Le Phuoc. Special issue on stream reasoning. *Semantic Web*, 10(3):453–455, 2019.
- [E28] Thomas Eiter, M. Maratea, and M. Vallati. Preface. *Fundam. Informaticae*, 174(3-4), 2020. Special issue on the 25th RCRA International Workshop on Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion.
- [E29] Luc De Raedt, T. Eiter, M. J. Maher, E. Pontelli, and M. Truszczyński, editors. *Theory and Practice of Logic Programming: TPLP 20th Anniversary Special Issue*. Cambridge University Press, 2022. To appear.

## Chapters in Books and Collections

- [BC1] T. Eiter, N. Leone, and D. Pearce. Assumption Sets for Extended Logic Programs. In J. Gerbrandy, M. Marx, M. de Rijke, and Y. Venema, editors, *JFAK. Essays Dedicated to Johan van Benthem on the Occasion of his 50th Birthday*. Amsterdam University Press, 1999. ISBN 90 5629 104 1.
- [BC2] G. Brewka and T. Eiter. Prioritizing Default Logic. In S. Hölldobler, editor, *Intellectics and Computational Logic – Papers in Honor of Wolfgang Bibel*, pages 27–45. Kluwer, 2000. ISBN 0-7923-6261-6.
- [BC3] T. Eiter, W. Faber, N. Leone, and G. Pfeifer. Declarative Problem-Solving Using the DLV System. In J. Minker, editor, *Logic-Based Artificial Intelligence*, pages 79–103. Kluwer Academic Publishers, 2000.
- [BC4] Thomas Eiter, V. Mascardi, and V. Subrahmanian. Error-Tolerant Agents. In A. Kakas and F. Sadri, editors, *Computational Logic: From Logic Programming into the Future*, number 2407 in LNCS/LNAI, pages 586–625. Springer Verlag, 2002. Festschrift in honour of Bob Kowalski.
- [BC5] Thomas Eiter, M. Fink, G. Sabbatini, and H. Tompits. Declarative update policies for nonmonotonic knowledge bases. In J. Chomicki, R. van der Meyden, and G. Saake, editors, *Logics for Emerging Applications of Databases*, chapter 3, pages 85–129. Springer-Verlag, 2003.
- [BC6] Robert Baumgartner, T. Eiter, G. Gottlob, M. Herzog, and C. Koch. Information extraction for the semantic web. In N. Eisinger and J. Maluszynski, editors, *Reasoning Web, First International Summer School 2005, Msida, Malta, July 25-29, 2005, Tutorial Lectures*, number 3564 in LNCS, pages 275–289. Springer, 2005.
- [BC7] Thomas Eiter, W. Faber, G. Pfeifer, and A. Polleres. Declarative planning and knowledge representation in an action language. In I. Vlahavas and D. Vrakas, editors, *Intelligent Techniques for Planning*, chapter 1, pages 1–34. Idea Group, Inc., 2005.
- [BC8] Thomas Eiter, G. Ianni, A. Polleres, R. Schindlauer, and H. Tompits. Reasoning with rules and ontologies. In P. Barahona, F. Bry, E. Franconi, N. Henze, and U. Sattler, editors, *Reasoning Web, Second International Summer School 2006, Lissabon, Portugal, September 25-29, 2006, Tutorial Lectures*, number 4126 in LNCS, pages 93–127. Springer, 2006.
- [BC9] François Bry, N. Eisinger, T. Eiter, T. Furche, G. Gottlob, C. Ley, B. Linse, R. Pichler, and F. Wei. Foundations of rule-based query answering. In G. Antoniou et al., editor, *Reasoning Web, Third International Summer School 2007, Dresden, Germany, September 3-7, 2007, Tutorial Lectures*, number 4636 in LNCS, pages 1–153. Springer, 2007.
- [BC10] Thomas Eiter, G. Ianni, T. Krennwallner, and A. Polleres. Rules and ontologies for the semantic web. In C. Baroglio et al., editor, *Reasoning Web, Fourth International Summer School 2008, Venice Italy, September 7-11, 2008, Tutorial Lectures*, number 5224 in LNCS, pages 1–53. Springer, 2008.
- [BC11] Thomas Eiter, G. Ianni, and T. Krennwallner. Answer set programming: A primer. In S. Tessaris and E. Franconi et al., editors, *Reasoning Web, Fifth International Summer School 2008, Bressanone Italy, August 30–September 4, 2009, Tutorial Lectures*, number 5689 in LNCS, pages 40–110. Springer, 2009.
- [BC12] Włodzimierz Drabent, T. Eiter, G. Ianni, T. Krennwallner, T. Lukasiewicz, and J. Małuszyński. Hybrid reasoning with rules and ontologies. In F. Bry and J. Małuszyński, editors, *Semantic Techniques for the Web: The REVERSE perspective*, number 5500 in LNCS, chapter 1, pages 1–49. Springer, 2009.
- [BC13] Thomas Eiter, G. Brewka, and M. Fink. Nonmonotonic multi-context systems: A flexible approach for integrating heterogeneous knowledge sources. In M. Balduccini and S. C. Tran, editors, *Essays Dedicated to Michael Gelfond on the Occasion of his 65th Birthday*, number 6565 in LNCS/LNAI, pages 233–258. Springer Verlag, 2010.
- [BC14] Thomas Eiter, G. Gottlob, and T. Schwentick. The model checking problem for prefix classes of second-order logic: A survey. In A. Blass, N. Dershowitz, and W. Reisig, editors, *Fields of Logic and Computation: Essays Dedicated to Yuri Gurevich on the Occasion of his 70th Birthday*, number 6300 in LNCS/LNAI, pages 227–250. Springer Verlag, 2010.
- [BC15] Minh Dao-Tran, T. Eiter, M. Fink, and T. Krennwallner. Dynamic distributed nonmonotonic multi-context systems. In G. Brewka, M. Truszczyński, and V. Marek, editors, *NonMon@30: Thirty Years of Nonmonotonic Reasoning*, pages 63–88. College Publications, London, UK, 2011.
- [BC16] Thomas Eiter, C. Feier, and M. Fink. Simulating production rules using ACTHEX. In E. Erdem, J. Lee, Y. Lierler, and D. Pearce, editors, *Lifschitz Festschrift: Essays Dedicated to Vladimir Lifschitz on the Occasion of his 65th Birthday*, number 7265 in LNCS/LNAI, pages 211–228. Springer Verlag, 2012.

- [BC17] Thomas Eiter, M. Fink, and A. Weinzierl. Preference-based diagnosis selection in multi-context systems. In T. Eiter, H. Straß, M. Truszczyński, and S. Woltran, editors, *Preferences in Knowledge Representation, Logic Programming and Abstract Argumentation. A Festschrift in Honour of Gerd Brewka on the Occasion of his 60th Birthday*, number 9060 in Lecture Notes in Computer Science, pages 233–248. Springer, 2015.
- [BC18] Thomas Eiter, H. Straß, M. Truszczyński, and S. Woltran. A glimpse on Gerhard Brewka’s contributions to Artificial Intelligence. In T. Eiter, H. Straß, M. Truszczyński, and S. Woltran, editors, *Preferences in Knowledge Representation, Logic Programming and Abstract Argumentation. A Festschrift in Honour of Gerd Brewka on the Occasion of his 60th Birthday*, number 9060 in Lecture Notes in Computer Science, pages 1–16. Springer, 2015.
- [BC19] Thomas Eiter, C. Redl, and P. Schüller. Problem solving using the HEX family. In C. Beierle, G. Brewka, and M. Thimm, editors, *Festschrift dedicated to Gabriele Kern-Iseberner on the Occasion of her 60th Birthday*, pages 134–158. College Publications, London, UK, 2016.
- [BC20] Alessandra Mileo, M. Dao-Tran, T. Eiter, and M. Fink. Stream reasoning. In L. Liu and M. T. Özsu, editors, *Encyclopedia of Database Systems, 2nd edition*, page 7 pp. Springer Science+Business Media, 2017. DOI10.1007/978-1-4899-7993-3\_80715-1.
- [BC21] Thomas Eiter, T. Kaminski, C. Redl, P. Schüller, and A. Weinzierl. Answer set programming with external source access. In G. Ianni, D. Lembo, L. E. Bertossi, W. Faber, B. Glimm, G. Gottlob, and S. Staab, editors, *Reasoning Web. Semantic Interoperability on the Web, 13th International Summer School 2017, London, UK, July 7-11, 2017, Tutorial Lectures*, number 10370 in LNCS, pages 204–275. Springer, 2017.
- [BC22] Loris Bozzato, T. Eiter, and L. Serafini. Reasoning with justifiable exceptions in  $\mathcal{EL}^+$  contextualized knowledge repositories. In A. Turhan, U. Sattler, F. Wolter, and C. Lutz, editors, *Description Logic, Theory Combination, and All That – Essays Dedicated to Franz Baader on the Occasion of His 60th Birthday*, number 11560 in Lecture Notes in Computer Science, pages 110–134. Springer, 2019.

## Journal Papers

- [J1] T. Eiter, M. Schrefl, and M. Stumptner. Sperrverfahren für  $B$ -Bäume im Vergleich (Engl. A comparison of locking algorithms for B-Trees). *Informatik-Spektrum*, 14:183–200, 1991.
- [J2] Marco Cadoli, T. Eiter, and G. Gottlob. An Efficient Method for Eliminating Varying Predicates from a Circumscription. *Artificial Intelligence*, 54:397–410, 1992.
- [J3] Thomas Eiter and G. Gottlob. On the Complexity of Propositional Knowledge Base Revision, Updates, and Counterfactuals. *Artificial Intelligence*, 57(2–3):227–270, 1992.
- [J4] Thomas Eiter and G. Gottlob. Reasoning with Parsimonious and Moderately Grounded Expansions. *Fundamenta Informaticae*, 17(1,2):31–53, 1992.
- [J5] Thomas Eiter and G. Gottlob. Propositional Circumscription and Extended Closed World Reasoning are  $\Pi_2^P$ -complete. *Theoretical Computer Science*, 114(2):231–245, 1993. Addendum 118:315.
- [J6] Thomas Eiter. Exact Transversal Hypergraphs and Application to Boolean  $\mu$ -Functions. *Journal of Symbolic Computation*, 17:215–225, 1994.
- [J7] T. Eiter and G. Gottlob. On the Computational Cost of Disjunctive Logic Programming: Propositional Case. *Annals of Mathematics and Artificial Intelligence*, 15(3/4):289–323, 1995.
- [J8] Thomas Eiter. Generating Boolean  $\mu$ -Expressions. *Acta Informatica*, 32:171–187, 1995.
- [J9] Thomas Eiter and G. Gottlob. Identifying the Minimal Transversals of a Hypergraph and Related Problems. *SIAM Journal on Computing*, 24(6):1278–1304, December 1995. Extended paper Technical Report CD-TR 91/16, Christian Doppler Laboratory for Expert Systems, TU Vienna, Austria, January 1991.
- [J10] Thomas Eiter and G. Gottlob. The Complexity of Logic-Based Abduction. *Journal of the ACM*, 42(1):3–42, January 1995.
- [J11] Thomas Eiter, G. Gottlob, and Y. Gurevich. Normal Forms for Second-Order Logic over Finite Structures, and Classification of NP Optimization Problems. *Annals of Pure and Applied Logic*, 78:111–125, 1996.
- [J12] Thomas Eiter, P. Kilpelainen, and H. Mannila. Recognizing renamable generalized propositional Horn formulas is NP-complete. *Discrete Applied Mathematics*, 59:23–31, 1995.
- [J13] Piero A. Bonatti and T. Eiter. Querying Disjunctive Databases Through Nonmonotonic Logics. *Theoretical Computer Science*, 160:321–363, 1996.

- [J14] Thomas Eiter and G. Gottlob. Mächtigkeit von Logikprogrammierung über Datenbanken. *Künstliche Intelligenz*, 3/96:32–39, 1996. (Engl. Expressive power of logic programming over databases.) Invited paper.
- [J15] Thomas Eiter and G. Gottlob. The Complexity of Nested Counterfactuals and Iterated Knowledge Base Revisions. *Journal of Computer and System Sciences*, 53(3):497–512, 1996.
- [J16] M. Cadoli, T. Eiter, and G. Gottlob. Default Logic as a Query Language. *IEEE Transactions on Knowledge and Data Engineering*, 9(3):448–463, May/June 1997.
- [J17] Thomas Eiter and G. Gottlob. Expressiveness of Stable Model Semantics for Disjunctive Logic Programs with Functions. *Journal of Logic Programming*, 33(2):167–178, 1997.
- [J18] Thomas Eiter, G. Gottlob, and N. Leone. Abduction From Logic Programs: Semantics and Complexity. *Theoretical Computer Science*, 189(1-2):129–177, December 1997.
- [J19] Thomas Eiter, G. Gottlob, and N. Leone. On the Indiscernibility of Individuals in Logic Programming. *Journal of Logic and Computation*, 7(6):805–824, December 1997.
- [J20] Thomas Eiter, G. Gottlob, and N. Leone. Semantics and Complexity for Abduction from Default Theories. *Artificial Intelligence*, 90(1-2):177–222, 1997.
- [J21] Thomas Eiter, G. Gottlob, and H. Mannila. Disjunctive Datalog. *ACM Transactions on Database Systems*, 22(3):364–417, September 1997.
- [J22] Thomas Eiter, N. Leone, and D. Saccà. On the Partial Semantics for Disjunctive Deductive Databases. *Annals of Mathematics and Artificial Intelligence*, 19(1/2):59–96, 1997.
- [J23] Thomas Eiter, K. Makino, and T. Ibaraki. Double Horn functions. *Information and Computation*, 144:155–190, August 1998.
- [J24] Thomas Eiter and H. Mannila. Distance Measures for Point Sets and Their Computation. *Acta Informatica*, 34(2):109–133, 1997.
- [J25] Thomas Eiter and G. Gottlob. On the Expressiveness of Frame Satisfiability and Fragments of Second Order Logic. *Journal of Symbolic Logic*, 63(1):73–82, 1998.
- [J26] Thomas Eiter, N. Leone, and D. Saccà. Expressive Power and Complexity of Partial Models for Disjunctive Deductive Databases. *Theoretical Computer Science*, 206(1-2):181–218, October 1998.
- [J27] Thomas Eiter, J. Lu, and V. Subrahmanian. A First-Order Representation of Stable Models. *The European Journal on Artificial Intelligence (AI Communications)*, 11(1):53–73, 1998.
- [J28] Francesco Buccafurri, T. Eiter, G. Gottlob, and N. Leone. Enhancing Model Checking in Verification by AI Techniques. *Artificial Intelligence*, 112(1-2):57–104, 1999.
- [J29] Gerd Brewka and T. Eiter. Preferred Answer Sets for Extended Logic Programs. *Artificial Intelligence*, 109(1-2):297–356, 1999.
- [J30] K. Arisha, T. Eiter, S. Kraus, F. Ozcan, R. Ross, and V. Subrahmanian. IMPACT: A Platform for Collaborating Agents. *IEEE Intelligent Systems*, 14(2):64–72, March/April 1999.
- [J31] T. Eiter, W. Faber, N. Leone, and G. Pfeifer. The Diagnosis Frontend of the `dlv` System. *The European Journal on Artificial Intelligence (AI Communications)*, 12(1–2):99–111, 1999.
- [J32] Thomas Eiter, K. Makino, and T. Ibaraki. Bidual Horn functions and extensions. *Discrete Applied Mathematics*, 96-97:55–88, 1999. **Selected for the special volume *Discrete Applied Mathematics, Editors’ Choice, Edition 1999*.**
- [J33] Thomas Eiter, K. Makino, and T. Ibaraki. Computing intersections of Horn theories for reasoning with models. *Artificial Intelligence*, 110(1-2):57–101, 1999.
- [J34] Thomas Eiter and V. Subrahmanian. Heterogeneous Active Agents, II: Algorithms and Complexity. *Artificial Intelligence*, 108(1-2):257–307, 1999.
- [J35] Thomas Eiter, V. Subrahmanian, and G. Pick. Heterogeneous Active Agents, I: Semantics. *Artificial Intelligence*, 108(1-2):179–255, 1999.
- [J36] Thomas Eiter and G. Gottlob. Complexity Results for Some Eigenvector Problems. *International Journal of Computer Mathematics*, 76(1/2):59–74, 2000.
- [J37] Thomas Eiter, G. Gottlob, and Y. Gurevich. Existential Second-Order Logic over Strings. *Journal of the ACM*, 47(1):77–131, January 2000.

- [J38] Thomas Eiter and T. Lukasiewicz. Default Reasoning from Conditional Knowledge Bases: Complexity and Tractable Cases. *Artificial Intelligence*, 124(2):169–241, 2000.
- [J39] Thomas Eiter and T. Lukasiewicz. Complexity Results for Structure-Based Causality. *Artificial Intelligence*, 142(1):53–89, 2002.
- [J40] Thomas Eiter, K. Makino, and T. Ibaraki. On the difference of Horn theories. *Journal of Computer and System Sciences*, 61(3):487–507, December 2000.
- [J41] Thomas Eiter, V. Subrahmanian, and T. Rogers. Heterogeneous Active Agents, III: Polynomially Implementable Agents. *Artificial Intelligence*, 117(1):107–167, 2000.
- [J42] Evgeny Dantsin, T. Eiter, G. Gottlob, and A. Voronkov. Complexity and Expressive Power of Logic Programming. *ACM Computing Surveys*, 33(3):374–425, 2001.
- [J43] Francesco Buccafurri, T. Eiter, G. Gottlob, and N. Leone. On ACTL Formulas Having Linear Counterexamples. *Journal of Computer and System Sciences*, 62(3):463–515, May 2001.
- [J44] Thomas Eiter, T. Lukasiewicz, J. Lu, and V. Subrahmanian. Probabilistic Object Bases. *ACM Transactions on Database Systems*, 26(3):264–312, September 2001. Extended version Technical Report INFSYS RR-1843-99-11, TU Wien, 1999.
- [J45] Thomas Eiter, T. Lukasiewicz, and M. Walter. A Data Model and Algebra for Probabilistic Complex Values. *Annals of Mathematics and Artificial Intelligence*, 33(2-4):205–252, 2001.
- [J46] Thomas Eiter, K. Makino, and T. Ibaraki. Disjunctions of Horn theories and their cores. *SIAM Journal on Computing*, 31(1):269–288, 2001.
- [J47] Nicola Leone, G. Pfeifer, W. Faber, T. Eiter, G. Gottlob, S. Perri, and F. Scarcello. The DLV System for Knowledge Representation and Reasoning. *ACM Transactions on Computational Logic*, 7(3):499–562, 2006.
- [J48] Thomas Eiter, W. Faber, N. Leone, and G. Pfeifer. Computing preferred answer sets by meta-interpretation in answer set programming. *Theory and Practice of Logic Programming*, 3(4-5):463–498, 2003.
- [J49] Thomas Eiter, W. Faber, N. Leone, G. Pfeifer, and A. Polleres. A logic programming approach to knowledge-state planning, II: The  $\text{dlv}^{\mathcal{K}}$  system. *Artificial Intelligence*, 144(1-2):157–211, 2003.
- [J50] Thomas Eiter, M. Fink, G. Sabbatini, and H. Tompits. On Properties of Update Sequences Based on Causal Rejection. *Theory and Practice of Logic Programming*, 2(6):721–777, 2002.
- [J51] Thomas Eiter, M. Fink, G. Sabbatini, and H. Tompits. Using Methods of Declarative Logic Programming for Intelligent Information Agents. *Theory and Practice of Logic Programming*, 2(6):645–719, 2002.
- [J52] Thomas Eiter, K. Makino, and T. Ibaraki. Decision Lists and Related Boolean Functions. *Theoretical Computer Science*, 270(1-2):493–524, 2002.
- [J53] Thomas Eiter, K. Makino, and T. Ibaraki. Recognition and dualization of disguised bidual Horn functions. *Information Processing Letters*, 82(6):283–291, June 2002.
- [J54] Thomas Eiter and V. Mascardi. A Comparison of Environments for Developing Software Agents. *The European Journal on Artificial Intelligence (AI Communications)*, 15(4):169–197, 2002.
- [J55] Thomas Eiter and H. Veith. On the Complexity of Data Disjunctions. *Theoretical Computer Science*, 288(1):101–128, 2002.
- [J56] Alexander Reiterer, H. Kahmen, U. Egly, and T. Eiter. 3D Vermessung mit Videotheodoliten und automatisierte Zielpunkterfassung mit Hilfe von Interest Operatoren. *Allgemeine Vermessungsnachrichten*, 110(4):150–156, 2003. (In German).
- [J57] Jürgen Dix, T. Eiter, M. Fink, A. Polleres, and Y. Zhang. Monitoring agents using declarative planning. *Fundamenta Informaticae*, 57(2-4):345–370, 2003.
- [J58] Klaus Chmelina, H. Kahmen, U. Egly, and T. Eiter. Heuristische Echtzeit-Fehlererkennung bei Deformationsmessungen während des Tunnelvortriebs. *Zeitschrift für Vermessungswesen (ZfV)*, 128(5):333–340, 2003. (In German).
- [J59] Thomas Eiter, W. Faber, N. Leone, G. Pfeifer, and A. Polleres. Answer Set Planning under Action Costs. *Journal of Artificial Intelligence Research*, 19:25–71, 2003.
- [J60] Thomas Eiter, G. Gottlob, and K. Makino. New Results on Monotone Dualization and Generating Hypergraph Transversals. *SIAM Journal on Computing*, 32(2):514–537, January-February 2003. Preliminary paper in Proc. ACM STOC 2002.
- [J61] Alexander Reiterer, H. Kahmen, U. Egly, and T. Eiter. Wissensbasierte Bildaufbereitung für ein videotheodolit-basiertes Multisensorsystem. *Allgemeine Vermessungsnachrichten*, 111(6):202–208, 2004. (In German).

- [J62] Grigoris Antoniou, M. Baldoni, C. Baroglio, R. Baumgartner, F. Bry, T. Eiter, N. Henze, M. Herzog, W. May, V. Patti, S. Schaffert, R. Schindlauer, and H. Tompits. Reasoning methods for personalization on the semantic web. *Annals of Mathematics, Computing and Teleinformatics*, 2(1):1–24, 2004. ISSN 1109-9305. Invited paper.
- [J63] Thomas Eiter, W. Faber, N. Leone, G. Pfeifer, and A. Polleres. A Logic Programming Approach to Knowledge-State Planning: Semantics and Complexity. *ACM Transactions on Computational Logic*, 5(2):206–263, Apr. 2004.
- [J64] Thomas Eiter and T. Lukasiewicz. Complexity Results for Explanations in the Structural-Model Approach. *Artificial Intelligence*, 154(1-2):145–198, 2004.
- [J65] Marco Cadoli, T. Eiter, and G. Gottlob. Complexity of nested circumscription and nested abnormality theories. *ACM Transactions on Computational Logic*, 6(2):232–272, Apr. 2005.
- [J66] Thomas Eiter, M. Fink, G. Sabbatini, and H. Tompits. Reasoning about evolving nonmonotonic knowledge bases. *ACM Transactions on Computational Logic*, 6(2):389–440, Apr. 2005.
- [J67] Thomas Eiter and G. Gottlob. Reasoning Under Minimal Upper Bounds in Propositional Logic. *Theoretical Computer Science*, 369:82–115, 2006.
- [J68] Thomas Eiter and T. Lukasiewicz. Causes and Explanations in the Structural-Model Approach: Tractable Cases. *Artificial Intelligence*, 170(6-7):542–580, 2006.
- [J69] Thomas Eiter and A. Polleres. Towards automated integration of guess and check programs in answer set programming: A meta-interpreter and applications. *Theory and Practice of Logic Programming*, 6(1-2):23–60, 2006.
- [J70] T. Eiter, W. Faber, M. Fink, and S. Woltran. Complexity Results for Answer Set Programming with Bounded Predicate Arities. *Annals of Mathematics and Artificial Intelligence*, 51(2-4):123–165, 2007.
- [J71] Thomas Eiter, E. Erdem, W. Faber, and J. Senko. A logic-based approach to finding explanations for discrepancies in optimistic plan execution. *Fundamenta Informaticae*, 79(1-2):25–69, 2007.
- [J72] Thomas Eiter, E. Erdem, M. Fink, and J. Senko. Comparing action descriptions based on semantic preferences. *Annals of Mathematics and Artificial Intelligence*, 50(3-4):273–304, 2007.
- [J73] Thomas Eiter, M. Fink, and H. Tompits. A Knowledge-Based Approach for Selecting Information Sources. *Theory and Practice of Logic Programming*, 7(3):249–300, 2007.
- [J74] Thomas Eiter, M. Fink, and S. Woltran. Semantical characterizations and complexity of equivalences in answer set programming. *ACM Transactions on Computational Logic*, 8(3), July 2007. Article 17 (53 + 11 pages).
- [J75] Thomas Eiter and K. Makino. On computing all abductive explanations from a propositional Horn theory. *Journal of the ACM*, 54(4), Sept. 2007. Article 24 (54 pages).
- [J76] Alexander Reiterer, U. Egly, T. Eiter, and H. Kahmen. A Knowledge-Based Videotheodolite Measurement System for Object Representation/Monitoring. *Advances in Engineering Software*, 39:821–827, 2008. Special issue on AICC 2005. doi:10.1016/j.advengsoft.2007.05.003.
- [J77] Chitta Baral, T. Eiter, M. Bjärelund, and M. Nakamura. Maintenance goals of agents in a dynamic environment: Formulation and policy construction. *Artificial Intelligence*, 172(12-13):1429–1469, 2008. doi:10.1016/j.artint.2008.03.005.
- [J78] Magdalena Ortiz, D. Calvanese, and T. Eiter. Data complexity of query answering in expressive description logics via tableaux. *Journal of Automated Reasoning*, 41(1):61–98, 2008.
- [J79] Thomas Eiter, E. Erdem, and W. Faber. Undoing the effects of action sequences. *Journal of Applied Logic*, 6:380–415, 2008.
- [J80] Thomas Eiter, M. Fink, G. Greco, and D. Lembo. Repair localization for query answering from inconsistent databases. *ACM Transactions on Database Systems*, 33(2), June 2008. Article 10, 51+20 pp. <http://doi.acm.org/10.1145/1366102.1366107>.
- [J81] Thomas Eiter, G. Ianni, T. Lukasiewicz, R. Schindlauer, and H. Tompits. Combining Answer Set Programming with Description Logics for the Semantic Web. *Artificial Intelligence*, 172(12-13):1495–1539, 2008. doi:10.1016/j.artint.2008.04.002. **AIJ Prominent Paper Award 2013**.
- [J82] Thomas Eiter, K. Makino, and G. Gottlob. Computational aspects of monotone dualization: A brief survey. *Discrete Applied Mathematics*, 156:2035–2049, 2008. doi:10.1016/j.dam.2007.04.017.
- [J83] Thomas Eiter and K. Wang. Semantic forgetting in answer set programming. *Artificial Intelligence*, 172:1644–1672, 2008. doi:10.1016/j.artint.2008.05.002.

- [J84] Alexander Reiterer, M. Lehmann, M. Miljanovic, H. Ali, G. Paar, U. Egly, T. Eiter, and H. Kahmen. A 3d optical deformation measurement system supported by knowledge-based and learning techniques. *Journal of Applied Geodesy*, 3:1–13, 2009. ISSN 1862-9016. DOI 10.1515/JAG.2009.001.
- [J85] Thomas Eiter, G. Ianni, T. Krennwallner, and R. Schindlauer. Exploiting conjunctive queries in description logic programs. *Annals of Mathematics and Artificial Intelligence*, 53(1-4):115–152, 2008. doi:10.1007/s10472-009-9111-3.
- [J86] Thomas Eiter, E. Erdem, M. Fink, and J. Senko. Updating action domain descriptions. *Artificial Intelligence*, 174(15):1172–1221, 2010.
- [J87] Thomas Eiter and M. Šimkus. FDNC: Decidable non-monotonic disjunctive logic programs with function symbols. *ACM Transactions on Computational Logic*, 11(2), Apr. 2010. Article 14 (50 + 16 pages).
- [J88] Gerd Brewka, T. Eiter, and M. Truszczyński. Answer set programming at a glance. *Communications of the ACM*, 54(12):92–103, 2011. doi:10.1145/2043174.2043195.
- [J89] Jos de Bruijn, T. Eiter, A. Polleres, and H. Tompits. Embedding non-ground logic programs into autoepistemic logic for knowledge base combination. *ACM Transactions on Computational Logic*, 12(3), 2011. Article 20 (39 + 9 pages).
- [J90] Thomas Eiter, G. Ianni, T. Lukasiewicz, and R. Schindlauer. Well-founded semantics for description logic programs in the Semantic Web. *ACM Transactions on Computational Logic*, 12(2), Apr. 2011. Article 11 (41 pp.).
- [J91] Milos Miljanovic, U. Egly, and T. Eiter. Detection of windows in facades using image processing algorithms. *Indian Journal of Computer Science and Engineering*, 3(4):539–547, 2012.
- [J92] Thomas Eiter, M. Fink, T. Krennwallner, and C. Redl. Conflict-driven ASP solving with external sources. *Theory and Practice of Logic Programming*, 12(4-5):659–679, 2012. Special issue on ICLP 2012.
- [J93] Thomas Eiter, M. Ortiz, and M. Šimkus. Conjunctive query answering in the description logic  $\mathcal{SH}$  using knots. *Journal of Computer and System Sciences*, 78(1):47–85, 2012. doi:10.1016/j.jcss.2011.02.012.
- [J94] T. Eiter, M. Fink, J. Pührer, H. Tompits, and S. Woltran. Model-based recasting in answer-set programming. *Journal of Applied Nonclassical Logics*, 23(1-2):75–104, 2013.
- [J95] Thomas Eiter, E. Erdem, H. Erdoğan, and M. Fink. Finding similar/diverse solutions in answer set programming. *Theory and Practice of Logic Programming*, 13(3):303–359, 2013.
- [J96] Thomas Eiter, M. Fink, C. Redl, and T. Krennwallner. Efficient HEX-program evaluation based on unfounded sets. *Journal of Artificial Intelligence Research*, 49:269–321, 2013.
- [J97] Thomas Eiter and G. Gottlob. Marco Cadoli’s work on nonmonotonic reasoning. *Intelligenza Artificiale*, 7(1):7–17, 2013.
- [J98] Diego Calvanese, T. Eiter, and M. Ortiz. Answering regular path queries in expressive description logics via alternating tree-automata. *Information and Computation*, 237:12–55, October 2014.
- [J99] Thomas Eiter, M. Fink, P. Schüller, and A. Weinzierl. Finding explanations of inconsistency in multi-context systems. *Artificial Intelligence*, 216:233–274, 2014.
- [J100] Yi-Dong Shen, K. Wang, T. Eiter, M. Fink, C. Redl, T. Krennwallner, and J. Deng. FLP answer set semantics without circular justifications for general logic programs. *Artificial Intelligence*, 213:1–41, Aug. 2014.
- [J101] Minh Dao-Tran, T. Eiter, M. Fink, and T. Krennwallner. Distributed evaluation of nonmonotonic multi-context systems. *Journal of Artificial Intelligence Research*, 52:543–600, 2015.
- [J102] Thomas Eiter, G. Ianni, M. Fink, T. Krennwallner, C. Redl, and P. Schüller. A model building framework for ASP with external computations. *Theory and Practice of Logic Programming*, 16(4):418–464, 2016. Available on CJO 2015 doi:10.1017/S1471068415000113, <http://arxiv.org/abs/1507.01451>.
- [J103] Giovanni Amendola, T. Eiter, M. Fink, N. Leone, and J. Moura. Semi-equilibrium models for paracoherent answer set programs. *Artificial Intelligence*, 234:219–271, 2016.
- [J104] Thomas Eiter, M. Fink, T. Krennwallner, and C. Redl. Domain expansion for ASP-programs with external sources. *Artificial Intelligence*, 233:81–121, Apr. 2016.
- [J105] Thomas Eiter, M. Fink, and D. Stepanova. Computing repairs of inconsistent DL-programs over  $\mathcal{EL}$  ontologies. *Journal of Artificial Intelligence Research*, 56:463–515, 2016.
- [J106] Thomas Eiter, M. Fink, and D. Stepanova. Data repair of inconsistent DL-programs. *Artificial Intelligence*, 239:7–53, 2016. <http://dx.doi.org/10.1016/j.artint.2016.06.003>.



- [J107] Thomas Eiter, T. Krennwallner, M. Prandstetter, C. Rudloff, P. Schneider, and M. Straub. Semantically enriched multi-modal routing. *International Journal of Intelligent Transport System Research*, 14:20–35, Jan. 2016. DOI 10.1007/s13177-014-0098-8. Online version.
- [J108] Yi-Dong Shen and T. Eiter. Evaluating epistemic negation in answer set programming. *Artificial Intelligence*, 237:115–135, 2016.
- [J109] Harald Beck, T. Eiter, and C. Folie. Ticker: A system for incremental ASP-based stream reasoning. *Theory and Practice of Logic Programming*, 17(5-6):744–763, 2017. Special issue on ICLP 2017.
- [J110] Thomas Eiter and A. Weinzierl. Preference-based inconsistency management in Multi-Context Systems. *Journal of Artificial Intelligence Research*, 60:347–424, 2017.
- [J111] Harald Beck, M. Dao-Tran, and T. Eiter. LARS: A logic-based framework for analytic reasoning over streams. *Artificial Intelligence*, 261:16–70, 2018.
- [J112] Harald Beck, M. Dao-Tran, T. Eiter, and C. Folie. Stream reasoning with LARS. *KI – Künstliche Intelligenz*, 32(2-3):193–195, 2018.
- [J113] Loris Bozzato, T. Eiter, and L. Serafini. Enhancing contextualized knowledge repositories with justifiable exceptions. *Artificial Intelligence*, 257:72–126, 2018. Extended and revised version of preliminary work [51, 55, 170].
- [J114] Thomas Eiter, G. Friedrich, R. Taupe, and A. Weinzierl. Lazy grounding for dynamic configuration. *KI – Künstliche Intelligenz*, 32(2-3):197–198, 2018.
- [J115] Thomas Eiter, S. Germano, G. Ianni, T. Kaminski, C. Redl, P. Schüller, and A. Weinzierl. The dlhex system. *KI – Künstliche Intelligenz*, 32(2-3):187–189, 2018.
- [J116] Thomas Eiter, T. Kaminski, C. Redl, and A. Weinzierl. Exploiting partial assignments for efficient evaluation of answer set programs with external source access. *Journal of Artificial Intelligence Research*, 62:665–727, 2018. <http://www.jair.org/papers/paper5818.html>.
- [J117] Tobias Kaminski, T. Eiter, and K. Inoue. Exploiting answer set programming with external sources for meta-interpretive learning. *Theory and Practice of Logic Programming*, 18(3-4):571–588, 2018. Special issue on ICLP 2018. **Best Paper Award**.
- [J118] Thomas Eiter, H. Füreder, F. Kasslatter, J. X. Parreira, and P. Schneider. Towards a semantically enriched local dynamic map. *International Journal of Intelligent Transport System Research*, 17(1):32–48, Jan. 2019.
- [J119] Thomas Eiter and G. Kern-Isberner. A brief survey on forgetting from a knowledge representation and reasoning perspective. *KI – Künstliche Intelligenz*, 31(1):9–33, 2019. Online <https://link.springer.com/content/pdf/10.1007/s13218-018-0564-6>.
- [J120] Thomas Eiter, P. Ogris, and K. Schekotihin. A distributed approach to LARS stream reasoning. *Theory and Practice of Logic Programming*, 19(5-6):974–989, 2019. Special issue on ICLP 2019. **Best System Paper Award**.
- [J121] Yi-Dong Shen and T. Eiter. Determining inference semantics for disjunctive logic programs. *Artificial Intelligence*, 277:115–135, Dec. 2019.
- [J122] Alexander Artikis, T. Eiter, A. Margara, and S. Vansummeren. Dagstuhl seminar on the foundations of composite event recognition. *SIGMOD Record*, 49(4):24–27, 2020.
- [J123] Thomas Eiter and R. Kiesel. ASP(AC): Answer set programming with algebraic constraints. *Theory and Practice of Logic Programming*, 20(6):895–910, 2020. Special issue on ICLP 2020.
- [J124] Thomas Eiter, P. Ogris, and K. Schekotihin. Managing caching strategies for stream reasoning with reinforcement learning. *Theory and Practice of Logic Programming*, 20(5):625–640, 2020. Special issue on ICLP 2020.
- [J125] Zeynep Gozen Saribatur and T. Eiter. Omission-based abstraction for answer set programs. *Theory and Practice of Logic Programming*, 21(2):145–195, 2020.
- [J126] Loris Bozzato, T. Eiter, and R. Kiesel. Reasoning on multi-relational contextual hierarchies via answer set programming with algebraic measures. *Theory and Practice of Logic Programming*, 21(5):593–609, 2021. Special issue on ICLP 2021.
- [J127] Loris Bozzato, T. Eiter, and L. Serafini. Reasoning on dl-lite $\nabla$  with defeasibility in ASP. *Theory and Practice of Logic Programming*, 22(2):254–304, 2021. TPLP special issue on RR+RuleML 2019.
- [J128] Thomas Eiter, R. Ichise, J. X. Parreira, P. Schneider, and L. Zhao. Deploying spatial-stream query answering in C-ITS scenarios. *Semantic Web Journal*, 12(1):41–77, 2021.

- [J129] Thomas Eiter and T. Kaminski. Pruning external minimality checking for ASP using semantic dependencies. *Artificial Intelligence*, 290:103402, 2021.
- [J130] Zeynep Gozen Saribatur, T. Eiter, and P. Schüller. Abstraction for non-ground answer set programs. *Artificial Intelligence*, 300:103563, 2021.
- [J131] Thomas Eiter, J. Oetsch, M. Pritz, and N. Ruiz. A neuro-symbolic ASP pipeline for visual question answering. *Theory and Practice of Logic Programming*, 2022. Special issue on ICLP 2022, to appear.

## Conferences and Symposia

- [C1] Thomas Eiter and G. Gottlob. On the Complexity of Propositional Knowledge Base Revision, Updates, and Counterfactuals. In *Proceedings of the Eleventh ACM SIGACT SIGMOD-SIGART Symposium on Principles of Database Systems (PODS-92)*, pages 261–273, 1992. Also: *First Compulog Net Meeting on Knowledge Bases (CNKBS-92)*, München, February 1992. Extended version *Artificial Intelligence*, 57(2–3):227–270, 1992.
- [C2] T. Eiter and G. Gottlob. Complexity Aspects of Various Semantics for Disjunctive Databases. In *Proceedings of the Twelfth ACM SIGACT SIGMOD-SIGART Symposium on Principles of Database Systems (PODS-93)*, pages 158–167, June 1993.
- [C3] T. Eiter and G. Gottlob. The Complexity of Logic-Based Abduction. In P. Enjalbert, A. Finkel, and K. Wagner, editors, *Proceedings Tenth Symposium on Theoretical Aspects of Computing (STACS-93)*, number 665 in LNCS, pages 70–79, Würzburg, February 1993. Springer. Extended paper in *Journal of the ACM* 42(1):3–42, 1995.
- [C4] Thomas Eiter and G. Gottlob. Complexity Results for Disjunctive Logic Programming and Application to Nonmonotonic Logics. In D. Miller, editor, *Proceedings of the Tenth International Logic Programming Symposium (ILPS-93)*, pages 266–278, Vancouver, 1993. MIT Press.
- [C5] Thomas Eiter and G. Gottlob. The Complexity of Nested Counterfactuals and Iterated Knowledge Base Revisions. In R. Bajcsy, editor, *Proceedings of the Thirteenth International Joint Conference on Artificial Intelligence (IJCAI-93)*, pages 526–531. Morgan Kaufman, 1993.
- [C6] Thomas Eiter, G. Gottlob, and Y. Gurevich. Curb Your Theory ! A circumscriptive approach for inclusive interpretation of disjunctive information. In R. Bajcsy, editor, *Proceedings of the Thirteenth International Joint Conference on Artificial Intelligence (IJCAI-93)*, pages 634–639. Morgan Kaufman, 1993. Also: *Second Compulog Net Meeting on Knowledge Bases (CNKBS-93)*, Athens, April 1993.
- [C7] M. Cadoli, T. Eiter, and G. Gottlob. Using Default Logic as a Query Language. In *Proceedings Fourth International Conference on Principles of Knowledge Representation and Reasoning (KR-94)*, pages 99–108, 1994.
- [C8] T. Eiter, G. Gottlob, and H. Mannila. Adding Disjunction to Datalog. In *Proceedings of the Thirteenth ACM SIGACT SIGMOD-SIGART Symposium on Principles of Database Systems (PODS-94)*, pages 267–278, May 1994.
- [C9] P. Bonatti and T. Eiter. Querying Disjunctive Databases Through Nonmonotonic Logics. In *Proceedings 5th Intl. Conference on Database Theory (ICDT-95)*, LNCS 893, pages 68–81, January 1995.
- [C10] Thomas Eiter, G. Gottlob, and N. Leone. Complexity Results for Abductive Logic Programming. In W. Marek, A. Nerode, and M. Truszczyński, editors, *Proceedings of the Third International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR-95)*, number 928 in LNCS, subseries LNAI, pages 1–14. Springer, 1995.
- [C11] Thomas Eiter, G. Gottlob, and N. Leone. Semantics and Complexity for Abduction from Default Theories. In C. Mellish, editor, *Proceedings of the Fourteenth International Joint Conference on Artificial Intelligence (IJCAI-95)*, pages 870–876. AAAI Press, 1995.
- [C12] Thomas Eiter, N. Leone, and D. Saccà. Unfounded Sets and Partial Stable Models for Disjunctive Deductive Databases. In *Proceedings APPIA-GULP-PRODE Conference*, 1996.
- [C13] Evgeny Dantsin, T. Eiter, G. Gottlob, and A. Voronkov. Complexity and Expressive Power of Logic Programming. In *Proceedings of the Twelfth IEEE International Conference on Computational Complexity (CCC '97)*, pages 82–101, 1997.
- [C14] Thomas Eiter and G. Gottlob. The Complexity Class  $\Theta_2^P$ : Recent Results and Applications in AI and Modal Logic. In B. Chlebus and L. Czaja, editors, *Proceedings 11th International Symposium on Fundamentals of Computation Theory (FCT '97)*, number 1279 in LNCS, pages 1–18. Springer, 1997.

- [C15] Thomas Eiter, G. Gottlob, and H. Veith. Modular Logic Programming and Generalized Quantifiers. In J. Dix, U. Furbach, and A. Nerode, editors, *Proceedings of the 4th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR-97)*, number 1265 in LNCS, pages 290–309. Springer, 1997. Extended paper CD-TR 97/108, Institut f. Informationssysteme, TU Wien 1997.
- [C16] Thomas Eiter, N. Leone, C. Mateis, G. Pfeifer, and F. Scarcello. A Deductive System for Non-Monotonic Reasoning. In J. Dix, U. Furbach, and A. Nerode, editors, *Proceedings of the 4th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR-97)*, number 1265 in LNCS, pages 364–375. Springer, 1997.
- [C17] Thomas Eiter, N. Leone, C. Mateis, G. Pfeifer, and F. Scarcello. The Architecture of a Disjunctive Deductive Database System. In A. P. Moreno Falaschi, Marisa Navarro, editor, *Proceedings Joint Conference on Declarative Programming (APPIA-GULP-PRODE '97)*, pages 141–151, June 1997.
- [C18] Thomas Eiter, J. Lu, and V. Subrahmanian. Computing Non-Ground Representations of Stable Models. In J. Dix, U. Furbach, and A. Nerode, editors, *Proceedings of the 4th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR-97)*, number 1265 in LNCS, pages 198–217. Springer, 1997.
- [C19] Thomas Eiter, K. Makino, and T. Ibaraki. Two-face Horn extensions. In H. Leong, H. Imai, and S. Jain, editors, *Proceedings Eight Annual Symposium on Algorithms and Computation (ISAAC '97)*, number 1350 in LNCS, pages 112–121, Singapore, December 17–19 1997. Springer.
- [C20] G. Brewka and T. Eiter. Preferred Answer Sets for Extended Logic Programs. In A. Cohn, L. Schubert, and S. Shapiro, editors, *Proceedings Sixth International Conference on Principles of Knowledge Representation and Reasoning (KR-98)*, pages 86–97, June 2–4 1998.
- [C21] T. Eiter, N. Leone, C. Mateis, G. Pfeifer, and F. Scarcello. The KR System dl<sub>v</sub>: Progress Report, Comparisons, and Benchmarks. In A. Cohn, L. Schubert, and S. Shapiro, editors, *Proceedings Sixth International Conference on Principles of Knowledge Representation and Reasoning (KR-98)*, pages 406–417, June 2–4 1998.
- [C22] Thomas Eiter, G. Gottlob, and Y. Gurevich. Existential Second-Order Logic over Strings. In *13th IEEE Symposium on Logic in Computer Science (LICS '98)*, pages 16–27, Indianapolis, Indiana, June 21–24 1998. IEEE Press.
- [C23] Thomas Eiter, N. Leone, C. Mateis, G. Pfeifer, and F. Scarcello. Progress Report on the Disjunctive Deductive Database System dl<sub>v</sub>. In T. Andreassen, H. Christiansen, and H. L. Larsen, editors, *Proceedings International Conference on Flexible Query Answering Systems (FQAS '98)*, pages 145–160, Roskilde University, Denmark, May 1998.
- [C24] Thomas Eiter, K. Makino, and T. Ibaraki. Computing intersections of Horn theories for reasoning with models. In *Proceedings National Conference on AI (AAAI '98)*, pages 292–297, Madison, Wisconsin, July 26–30 1998. AAAI Press.
- [C25] Thomas Eiter, K. Makino, and T. Ibaraki. Disjunctions of Horn theories and their cores. In K.-Y. Chwa and O. H. Ibarra, editors, *Proceedings Ninth Annual Symposium on Algorithms and Computation (ISAAC '98)*, number 1533 in LNCS, pages 49–58, Taejon, Korea, December 1998. Springer.
- [C26] Thomas Eiter, K. Makino, and T. Ibaraki. On disguised double Horn functions. In M. Morvan, C. Meinel, and D. Krob, editors, *Proceedings Fifteenth Symposium on Theoretical Aspects of Computing (STACS '98)*, number 1373 in LNCS, pages 50–60, Paris, February 1998. Springer.
- [C27] Thomas Eiter, K. Makino, and T. Ibaraki. On the difference of Horn theories. In C. Meinel and S. Tison, editors, *Proceedings Sixteenth Symposium on Theoretical Aspects of Computing (STACS '99)*, number 1563 in LNCS, pages 448–457, Trier, March 1999. Springer.
- [C28] T. Eiter, W. Faber, N. Leone, G. Pfeifer, and A. Polleres. Planning under Incomplete Knowledge. In J. Lloyd, V. Dahl, U. Furbach, M. Kerber, K.-K. Lau, C. Palamidessi, L. M. Pereira, Y. Sagiv, and P. J. Stuckey, editors, *Proceedings First International Conference on Computational Logic (CL-2000), Knowledge Representation and Non-monotonic Reasoning Stream*, number 1861 in LNCS/LNAI, pages 807–821. Springer Verlag, July 2000.
- [C29] Thomas Eiter, M. Fink, G. Sabbatini, and H. Tompits. Considerations on Updates of Logic Programs. In M. Ojeda-Aciego, I. P. de Guzmán, G. Brewka, and L. Moniz Pereira, editors, *Proceedings European Conference on Logics in Artificial Intelligence – Journées Européennes sur la Logique en Intelligence Artificielle (JELIA 2000), Malaga, Spain, September 29–October 2, 2000*, number 1919 in LNCS, pages 2–20. Springer, 2000.
- [C30] Thomas Eiter and G. Gottlob. On the Complexity of Theory Curbing. In M. Parigot and A. Voronkov, editors, *Proceedings 7th International Conference on Logic for Programming and Automated Reasoning (LPAR 2000), Reunion Island, France*, number 1955 in LNCS, pages 1–19. Springer, 2000.

- [C31] Thomas Eiter and T. Lukasiewicz. Complexity Results for Default Reasoning from Conditional Knowledge Bases. In A. Cohn, F. Giunchiglia, and B. Selman, editors, *Proceedings Seventh International Conference on Principles of Knowledge Representation and Reasoning (KR-00)*, Breckenridge, Colorado, USA, pages 62–73. Morgan Kaufmann, April 12-15 2000.
- [C32] Thomas Eiter and T. Lukasiewicz. New Tractability Results for Default Reasoning from Conditional Knowledge Bases. In M. Ojeda-Aciego, I. P. de Guzmán, G. Brewka, and L. Moniz Pereira, editors, *Proceedings European Conference on Logics in Artificial Intelligence – Journées Européennes sur la Logique en Intelligence Artificielle (JELIA 2000)*, Malaga, Spain, September 29–October 2, 2000, number 1919 in LNCS, pages 313–328. Springer, 2000.
- [C33] Thomas Eiter, T. Lukasiewicz, and M. Walter. Extension of Relational Algebra to Probabilistic Complex Values. In K.-D. Schewe and B. Thalheim, editors, *Proceedings International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2000)*, Burg (Spreewald), Germany, February 14–17, 2000, number 1762 in LNCS, pages 94–115. Springer, February 2000.
- [C34] Uwe Egly, T. Eiter, H. Tompits, and S. Woltran. Solving Advanced Reasoning Tasks using Quantified Boolean Formulas. In *Proceedings National Conference on AI (AAAI '00)*, July 30-August 3, 2000, Austin, Texas, pages 417–422. AAAI Press, 2000.
- [C35] Francesco Buccafurri, T. Eiter, G. Gottlob, and N. Leone. Combining Abduction and Model Checking Techniques for Repair of Concurrent Programs. In *Proceedings AAAI 2001 Spring Symposium on Model-Based Validation of Intelligence*, Stanford, CA. AAAI Press, March 2001. Invited paper.
- [C36] M. Cadoli, T. Eiter, and G. Gottlob. Complexity of Nested Circumscription and Abnormality Theories. In B. Nebel, editor, *Proceedings of the 17th International Joint Conference on Artificial Intelligence (IJCAI-01)*, pages 169–174. Morgan Kaufmann, 2001.
- [C37] T. Eiter, W. Faber, N. Leone, and G. Pfeifer. Computing Preferred and Weakly Preferred Answer Sets by Meta-Interpretation in Answer Set Programming. In A. Proveti and T. C. Son, editors, *Proceedings AAAI 2001 Spring Symposium on Answer Set Programming: Towards Efficient and Scalable Knowledge Representation and Reasoning*, Stanford, CA (Workshop Technical Report SS-01-01). AAAI Press, March 2001. ISBN 1-57735-129-0.
- [C38] Thomas Eiter, W. Faber, N. Leone, G. Pfeifer, and A. Polleres. System Description: The DLV<sup>K</sup> Planning System. In T. Eiter, W. Faber, and M. Truszczynski, editors, *Proceedings of the 6th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR-01)*, number 2173 in LNCS, pages 429–433. Springer, 2001. System Description (abstract).
- [C39] Thomas Eiter, M. Fink, G. Sabbatini, and H. Tompits. A Framework for Declarative Update Specifications in Logic Programs. In B. Nebel, editor, *Proceedings of the 17th International Joint Conference on Artificial Intelligence (IJCAI-01)*, pages 649–654. Morgan Kaufmann, 2001. Also presented at Fifth Dutch-German Workshop on Nonmonotonic Reasoning Techniques and their Applications (DGNMR'2001), April 4-6, 2001, Potsdam, Germany.
- [C40] Thomas Eiter, M. Fink, G. Sabbatini, and H. Tompits. An Update Front-End for Extended Logic Programs. In T. Eiter, W. Faber, and M. Truszczynski, editors, *Proceedings of the 6th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR-01)*, number 2173 in LNCS, pages 397–401. Springer, 2001. System Description (abstract).
- [C41] Thomas Eiter, M. Fink, G. Sabbatini, and H. Tompits. Declarative Knowledge Updates Through Agents. In D. Kudenko and E. Alonso, editors, *Proceedings AISB'01 Symposium on Adaptive Agents and Multi-agent Systems*, York, UK, 22-23 March, 2001, pages 79–84, UK, 2001. The Society for the Study of Artificial Intelligence and the Simulation of Behaviour (AISB). ISBN 1902956170.
- [C42] Thomas Eiter, M. Fink, G. Sabbatini, and H. Tompits. Reasoning about Evolving Nonmonotonic Knowledge Bases. In R. Nieuwenhuis and A. Voronkov, editors, *Proceedings 8th International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR 2001)*, Havana, Cuba, number 2250 in LNCS, pages 407–421. Springer, 2001.
- [C43] Thomas Eiter and T. Lukasiewicz. Complexity Results for Structure-Based Causality. In B. Nebel, editor, *Proceedings of the 17th International Joint Conference on Artificial Intelligence (IJCAI-01)*, pages 35–40. Morgan Kaufmann, 2001. **Distinguished Paper Award.**
- [C44] Thomas Eiter, D. Veit, J. Müller, and M. Schneider. Matchmaking for Structured Objects. In Y. Kambayashi, W. Winiwarter, and M. Arikawa, editors, *Proceedings Third International Conference on Data Warehousing and Knowledge Discovery (DaWaK 2001)*, number 2114 in LNCS, pages 186–194, Munich, Germany, September 5-7, 2001. Springer.

- [C45] U. Egly, T. Eiter, V. Klotz, H. Tompits, and S. Woltran. Computing Stable Models with Quantified Boolean Formulas: Some Experimental Results. In A. Proveti and T. C. Son, editors, *Proceedings AAAI 2001 Spring Symposium on Answer Set Programming: Towards Efficient and Scalable Knowledge Representation and Reasoning, Stanford, CA (Workshop Technical Report SS-01-01)*, pages 53–59. AAAI Press, March 2001. (Poster presentation). ISBN 1-57735-129-0.
- [C46] Nicola Leone, G. Pfeifer, W. Faber, F. Calimeri, T. Dell’Armi, T. Eiter, G. Gottlob, G. Ianni, G. Ielpa, C. Koch, S. Perri, and A. Polleres. The DLV System. In S. Flesca et al., editor, *Proceedings 8th European Conference on Logics in Artificial Intelligence – Journées Européennes sur la Logique en Intelligence Artificielle (JELIA 2002), Cosenza, Italy, 2002*, number 2424 in LNCS, pages 537–540. Springer, 2002. (System Description).
- [C47] T. Eiter, V. Klotz, H. Tompits, and S. Woltran. Modal nonmonotonic logics revisited: Efficient encodings for the basic reasoning tasks. In U. Egly and C. Fermüller, editors, *Proc. International Conference on Automated Reasoning with Analytic Tableaux and Related Methods (TABLEAUX), Copenhagen, Denmark, July 30–August 1, 2002*, number 2381 in LNCS, pages 100–114. Springer, 2002.
- [C48] Thomas Eiter, W. Faber, N. Leone, G. Pfeifer, and A. Polleres. Answer Set Planning under Action Costs. In S. Flesca et al., editor, *Proceedings 8th European Conference on Logics in Artificial Intelligence – Journées Européennes sur la Logique en Intelligence Artificielle (JELIA 2002), Cosenza, Italy, 2002*, number 2424 in LNCS, pages 186–197. Springer, 2002.
- [C49] Thomas Eiter, W. Faber, N. Leone, G. Pfeifer, and A. Polleres. The DLV<sup>K</sup> Planning System: Progress Report. In S. Flesca et al., editor, *Proceedings 8th European Conference on Logics in Artificial Intelligence – Journées Européennes sur la Logique en Intelligence Artificielle (JELIA 2002), Cosenza, Italy, 2002*, number 2424 in LNCS, pages 541–544. Springer, 2002. (System Description).
- [C50] Thomas Eiter, M. Fink, G. Sabbatini, and H. Tompits. A Generic Approach for Knowledge-Based Information Site Selection. In D. Fensel, F. Giunchiglia, D. McGuinness, and M.-A. Williams, editors, *Proceedings Eighth International Conference on Principles of Knowledge Representation and Reasoning (KR-02), April 22-25, Toulouse, France*, pages 459–469. Morgan Kaufmann, 2002.
- [C51] Thomas Eiter and G. Gottlob. Hypergraph transversal computation and related problems in logic and ai. In S. Flesca et al., editor, *Proceedings 8th European Conference on Logics in Artificial Intelligence – Journées Européennes sur la Logique en Intelligence Artificielle (JELIA 2002), Cosenza, Italy, 2002*, number 2424 in LNCS, pages 549–564. Springer, 2002.
- [C52] Thomas Eiter, G. Gottlob, and K. Makino. New Results on Monotone Dualization and Generating Hypergraph Transversals. In *Proceedings 34th ACM Symposium on Theory of Computing (STOC 2002)*, pages 14–22. ACM, 2002. Full paper *SIAM J. Computing*, 32(2):514–537, 2003.
- [C53] Thomas Eiter, G. Gottlob, and T. Schwentick. Second-Order Logic over Strings: Regular and Non-Regular Fragments. In W. Kuich, G. Rozenberg, and A. Salomaa, editors, *Proceedings Fifth International Conference on Developments in Language Theory (DLT 2001), July 16-21, Vienna, Austria*, number 2295 in LNCS, pages 37–56. Springer, 2002. Revised papers.
- [C54] Thomas Eiter and T. Lukasiewicz. Causes and Explanations in the Structural-Model Approach: Tractable Cases. In A. Darwiche and N. Friedman, editors, *Proceedings Eighteenth Conference on Uncertainty in Artificial Intelligence (UAI-2002), August 1-4, 2002, Edmonton, Alberta, Canada*, pages 146–153. Morgan Kaufmann, 2002.
- [C55] Thomas Eiter and T. Lukasiewicz. Complexity Results for Explanations in the Structural-Model Approach. In D. Fensel, F. Giunchiglia, D. McGuinness, and M.-A. Williams, editors, *Proceedings Eighth International Conference on Principles of Knowledge Representation and Reasoning (KR-02), April 22-25, Toulouse, France*, pages 49–60. Morgan Kaufmann, 2002.
- [C56] Thomas Eiter and K. Makino. On Computing all Abductive Explanations. In *Proceedings Eighteenth National Conference on Artificial Intelligence (AAAI ’02), July 28 – August 1, 2002, Edmonoton, Alberta (Canada)*, pages 62–67. AAAI Press, July 2002. **Distinguished Paper Award.**
- [C57] Alexander Reiterer, H. Kahmen, U. Egly, and T. Eiter. Knowledge-Based Image Preprocessing for a Theodolit Measurement System. In A. Grün and H. Kahmen, editors, *Proceedings 6th Conference on Optical 3D Measurement Techniques, Zurich, 22-25 September 2003*, pages 183–190. ETH Zürich, 2003.
- [C58] Jürgen Dix, T. Eiter, M. Fink, A. Polleres, and Y. Zhang. Monitoring agents using declarative planning. In A. Günter, R. Kruse, and B. Neumann, editors, *Proceedings of the 26th Annual German Conference on Artificial Intelligence (KI 2003)*, number 2821 in LNCS, pages 646–660. Springer, 2003.

- [C59] T. Eiter, M. Fink, H. Tompits, and S. Woltran. Simplifying logic programs under uniform and strong equivalence. In I. Niemelä and V. Lifschitz, editors, *Proceedings of the 7th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2004)*, number 2923 in LNCS, pages 87–99. Springer, 2004.
- [C60] Thomas Eiter and M. Fink. Uniform Equivalence of Logic Programs under the Stable Model Semantics. In C. Palamidessi, editor, *Proceedings 19th International Conference on Logic Programming (ICLP 2003)*, number 2916 in LNCS, pages 224–238. Springer, 2003. Honored with the **ICLP 2013 Test of Time Award**.
- [C61] Thomas Eiter, M. Fink, G. Greco, and D. Lembo. Efficient Evaluation of Logic Programs for Querying Data Integration Systems. In C. Palamidessi, editor, *Proceedings 19th International Conference on Logic Programming (ICLP 2003)*, number 2916 in LNCS, pages 163–177. Springer, 2003.
- [C62] Thomas Eiter and T. Lukasiewicz. Probabilistic reasoning about actions in nonmonotonic causal theories. In C. Meek and U. Kjærulff, editors, *Proceedings Nineteenth Conference on Uncertainty in Artificial Intelligence (UAI-2003), August 7-10, 2003, Acapulco, Mexico*, pages 192–199, San Francisco, CA, 2003. Morgan Kaufmann Publishers.
- [C63] Thomas Eiter and K. Makino. Abduction and the Dualization Problem. In G. Grieser, Y. Tanaka, and A. Yamamoto, editors, *Proceedings 6th International Conference on Discovery Science (DS 2003), Sapporo, Japan, October 17-19, 2003*, volume 2843 of LNCS/LNAI, pages 1–20. Springer, 2003.
- [C64] Thomas Eiter and K. Makino. Generating all abductive explanations for queries on propositional Horn theories. In M. Baaz and J. Makowsky, editors, *Proceedings 12th Annual Conference of the EACSL (CSL 2003), August 25-30 2003, Vienna, Austria*, number 2803 in LNCS, pages 197–211. Springer, 2003.
- [C65] Thomas Eiter and A. Polleres. Transforming coNP checks to answer set computation by meta-interpretation. In N. Leone and P. Rullo, editors, *Proceedings Joint Conference on Declarative Programming (APPIA-GULP-PRODE 2003), Reggio Calabria, Italy, September 3-5, 2003*, pages 410–421, 2003. Informal Proceedings.
- [C66] Thomas Eiter and A. Polleres. Towards automated integration of guess and check programs in answer set programming: A meta-interpreter and applications. In I. Niemelä and V. Lifschitz, editors, *Proceedings of the 7th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2004)*, number 2923 in LNCS, pages 100–113. Springer, 2004.
- [C67] Alexander Reiterer, U. Egly, T. Eiter, and H. Kahmen. A Knowledge-Based Videometric Measurement System. In *Proceedings of the Symposium on Professional Practice in AI, First IFIP International Conference on Artificial Intelligence Application and Innovations (AIAI 2004) as part of: IFIP World Computer Congress (WCC2004), Toulouse, France, August 22–27, 2004*, pages 313–322, 2004.
- [C68] Chitta Baral and T. Eiter. Polynomial time algorithm for constructing k-maintainable policies. In S. Zilberstein, J. Koehler, and S. Koenig, editors, *Proceedings 14th International Conference on Automated Planning and Scheduling (ICAPS 2004), Whistler, British Columbia, Canada, June 3-7, 2004*, pages 111–121, 2004. Reprinted in Proc. KR 2004, pp. 720–730.
- [C69] T. Eiter, W. Faber, M. Fink, G. Pfeifer, and S. Woltran. Complexity of Model Checking and Bounded Predicate Arities for Non-ground Answer Set Programming. In D. Dubois, C. Welty, and M.-A. Williams, editors, *Proceedings Ninth International Conference on Principles of Knowledge Representation and Reasoning (KR 2004), June 2-5, Whistler, British Columbia, Canada*, pages 377–387. Morgan Kaufmann, 2004.
- [C70] T. Eiter, M. Fink, H. Tompits, and S. Woltran. On Eliminating Disjunctions in Stable Logic Programming. In D. Dubois, C. Welty, and M.-A. Williams, editors, *Proceedings Ninth International Conference on Principles of Knowledge Representation and Reasoning (KR 2004), June 2-5, Whistler, British Columbia, Canada*, pages 447–457. Morgan Kaufmann, 2004.
- [C71] Thomas Eiter, G. Ianni, R. Schindlauer, and H. Tompits. Nonmonotonic Description Logic Programs: Implementation and Experiments. In F. Baader and A. Voronkov, editors, *Proceedings 12th International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR 2004)*, number 3452 in LNCS, pages 511–527. Springer, 2005.
- [C72] Thomas Eiter, T. Lukasiewicz, R. Schindlauer, and H. Tompits. Combining Answer Set Programming with Description Logics for the Semantic Web. In D. Dubois, C. Welty, and M.-A. Williams, editors, *Proceedings Ninth International Conference on Principles of Knowledge Representation and Reasoning (KR 2004), June 2-5, Whistler, British Columbia, Canada*, pages 141–151. Morgan Kaufmann, 2004.
- [C73] Alexander Reiterer, U. Egly, T. Eiter, and H. Kahmen. A knowledge based decision system for an image based measurement system. In B. Topping, editor, *Proceedings 8th International Conference on the Application of Artificial Intelligence*

- to *Civil and Structural Engineering (AICC 2005)*, Rome, August 30 - September 2, 2005, pages 35–36. Civil-Comp Press, 2005.
- [C74] Alexander Reiterer, H. Kahmen, U. Egly, T. Eiter, and G. Paar. A smart videometric system. In A. Grün and H. Kahmen, editors, *Proceedings 7th Conference on Optical 3D Measurement Techniques, Vienna, 3-10 October, 2005*, pages 370–375, 2005. ISBN 3-9501492-2-8.
- [C75] Chitta Baral, T. Eiter, and J. Zhao. Using SAT and LP to design polynomial-time algorithms for planning in non-deterministic domains. In *Proceedings 20th National Conference on Artificial Intelligence (AAAI '05), July 9-13, 2005, Pittsburgh, Pennsylvania*, pages 578–583. AAAI Press, July 2005.
- [C76] Nicola Leone, T. Eiter, W. Faber, M. Fink, G. Gottlob, G. Greco, G. Ianni, E. Kalka, D. Lembo, M. Lenzerini, V. Lio, B. Nowicki, R. Rosati, M. Ruzzi, W. Staniszkis, and G. Terracina. Boosting information integration: The INFOMIX system. In *Proceedings 13th Italian Somposium on Databases (SEBD 2005), Bressanone, Italy*, pages 55–66. Aracne Editrice s.r.l, Roma, 2005.
- [C77] Nicola Leone, T. Eiter, W. Faber, M. Fink, G. Gottlob, G. Greco, G. Ianni, E. Kalka, D. Lembo, M. Lenzerini, V. Lio, B. Nowicki, R. Rosati, M. Ruzzi, W. Staniszkis, and G. Terracina. Data integration: a challenging ASP application. In C. Baral, G. Greco, N. Leone, and G. Terracina, editors, *Proceedings of the 8th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2005)*, number 3662 in LNCS, pages 379–383. Springer, 2005. System paper.
- [C78] Nicola Leone, T. Eiter, W. Faber, M. Fink, G. Gottlob, G. Greco, G. Ianni, E. Kalka, D. Lembo, M. Lenzerini, V. Lio, B. Nowicki, R. Rosati, M. Ruzzi, W. Staniszkis, and G. Terracina. The INFOMIX system for advanced integration of incomplete and inconsistent data. In *Proceedings ACM SIGMOD/PODS 2005 Conference, June 13-16, 2005, Baltimore, Maryland*, pages 915–917. ACM, 2005. Demo paper.
- [C79] T. Eiter, M. Fink, H. Tompits, P. Traxler, and S. Woltran. Replacements in non-ground answer-set programming. In P. Doherty, J. Mylopoulos, and C. Welty, editors, *Proceedings Tenth International Conference on Principles of Knowledge Representation and Reasoning (KR 2006), June 2-5, Lake District of the UK*, pages 340–350. AAAI Press, 2006.
- [C80] T. Eiter, M. Fink, H. Tompits, and S. Woltran. Strong and uniform equivalence in answer-set programming: Characterizations and complexity results for the non-ground case. In *Proceedings 20th National Conference on Artificial Intelligence (AAAI '05), July 9-13, 2005, Pittsburgh, Pennsylvania*, pages 695–700. AAAI Press, July 2005.
- [C81] T. Eiter, H. Tompits, and S. Woltran. On solution correspondences in answer set programming. In L. P. Kaelbling and A. Saffiotti, editors, *Proceedings of the 19th International Joint Conference on Artificial Intelligence (IJCAI-05)*, pages 97–102. Professional Book Center, 2005.
- [C82] Thomas Eiter. Data integration and answer set programming. In C. Baral, G. Greco, N. Leone, and G. Terracina, editors, *Proceedings of the 8th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2005)*, number 3662 in LNCS, pages 13–25. Springer, 2005. Invited paper.
- [C83] Thomas Eiter, E. Erdem, M. Fink, and J. Senko. Updating action domain descriptions. In L. P. Kaelbling and A. Saffiotti, editors, *Proceedings of the 19th International Joint Conference on Artificial Intelligence (IJCAI-05)*, pages 418–423. Professional Book Center, 2005.
- [C84] Thomas Eiter, W. Faber, and P. Traxler. Testing strong equivalence of datalog programs: Implementation and examples. In C. Baral, G. Greco, N. Leone, and G. Terracina, editors, *Proceedings of the 8th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2005)*, number 3662 in LNCS, pages 437–441. Springer, 2005.
- [C85] Thomas Eiter, M. Fink, and J. Senko. Kmonitor – a tool for monitoring plan execution in action theories. In C. Baral, G. Greco, N. Leone, and G. Terracina, editors, *Proceedings of the 8th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2005)*, number 3662 in LNCS, pages 416–421. Springer, 2005.
- [C86] Thomas Eiter, G. Ianni, R. Schindlauer, and H. Tompits. DLV-HEX: Dealing with semantic web under answer-set programming. In R. Mizoguchi, editor, *Poster & Demonstration Proceedings of the 4th International Semantic Web Conference (ISWC 2005)*, page PID 73, 2005. System poster.
- [C87] Thomas Eiter, G. Ianni, R. Schindlauer, and H. Tompits. NLP-DL: A KR system for coupling nonmonotonic logic programs with description logics. In R. Mizoguchi, editor, *Poster & Demonstration Proceedings of the 4th International Semantic Web Conference (ISWC 2005)*, page PID 67, 2005. System poster.
- [C88] Thomas Eiter, G. Ianni, R. Schindlauer, and H. Tompits. A uniform integration of higher-order reasoning and external evaluations in answer set programming. In L. P. Kaelbling and A. Saffiotti, editors, *Proceedings of the 19th International Joint Conference on Artificial Intelligence (IJCAI-05)*, pages 90–96. Professional Book Center, 2005.

- [C89] Alexander Reiterer and T. Eiter. A distance-based method for the evaluation of interest point detection algorithms. In *Proceedings International Conference on Image Processing (ICIP '06), Atlanta, Georgia, October 8-11, 2006*, pages 2745–2748. IEEE, 2006.
- [C90] Fu-Leung Cheng, T. Eiter, N. Robinson, A. Sattar, and K. Wang. LPForget: A system of forgetting in answer set programming. In *Proceedings 19th Australian Joint Conference on Artificial Intelligence, Hobart, Tasmania, Dec 4-8, 2006*, number 4304 in LNCS/LNAI, pages 1101–1105. Springer, 2006.
- [C91] Jos de Bruijn, T. Eiter, A. Polleres, and H. Tompits. On representational issues about combinations of classical theories with nonmonotonic rules. In J. Lang, F. Lin, and J. Wang, editors, *Proceedings of the First International Conference on Knowledge Science, Engineering and Management (KSEM 2006), Guilin City, China, August 5-8, 2006*, number 4092 in LNCS/LNAI, pages 1–22. Springer, 2006. Invited paper.
- [C92] M. Magdalena Ortiz de la Fuente, D. Calvanese, and T. Eiter. Characterizing Data Complexity for Conjunctive Query Answering in Expressive Description Logics. In *Proceedings 21th National Conference on Artificial Intelligence (AAAI '06), July 16-23, 2006, Boston*, pages 275–280. AAAI Press, 2006.
- [C93] Thomas Eiter, E. Erdem, and W. Faber. On reversing actions: Algorithms and complexity. In M. Veloso, editor, *Proceedings of the 20th International Joint Conference on Artificial Intelligence (IJCAI-07)*, pages 336–341. AAAI Press/IJCAI, 2007.
- [C94] Thomas Eiter, E. Erdem, M. Fink, and J. Senko. Comparing action descriptions based on semantic preferences. In M. F. et al., editor, *Proceedings 8th European Conference on Logics in Artificial Intelligence – Journées Européennes sur la Logique en Intelligence Artificielle (JELIA 2006)*, number 4160 in LNCS, pages 124–137. Springer, 2006. Also in Proceedings Multidisciplinary Workshop on Advances in Preference Handling, ECAI 2006, Riva del Garda, August 29, 2006.
- [C95] Thomas Eiter, E. Erdem, M. Fink, and J. Senko. Resolving conflicts in action descriptions. In G. Brewka, S. Coradeschi, A. Perini, and P. Traverso, editors, *Proceedings of the 17th European Conference on Artificial Intelligence, ECAI'2006, Riva di Garda, Italy, August 28 – September 1, 2006*, pages 367–371. IOS Press, 2006.
- [C96] Thomas Eiter, M. Fink, and J. Senko. A tool for answering queries on action descriptions. In M. F. et al., editor, *Proceedings 8th European Conference on Logics in Artificial Intelligence – Journées Européennes sur la Logique en Intelligence Artificielle (JELIA 2006)*, number 4160 in LNCS, pages 473–476. Springer, 2006.
- [C97] Thomas Eiter, G. Ianni, R. Schindlauer, and H. Tompits. dlhex: A prover for semantic-web reasoning under the answer-set semantics. In *IEEE/WIC/ACM International Conference on Web Intelligence (WI 2006), Hongkong, Dec. 2006*, pages 1073–74. IEEE Computer Society, 2006. System Poster. More extend version at ALPSWS 2006.
- [C98] Thomas Eiter, G. Ianni, R. Schindlauer, and H. Tompits. Effective integration of declarative rules with external evaluations for semantic web reasoning. In Y. Sure and J. Domingue, editors, *Proceedings 3rd European Conference on Semantic Web (ESWC 2006)*, number 4011 in LNCS, pages 273–287. Springer, 2006.
- [C99] Thomas Eiter, G. Ianni, R. Schindlauer, H. Tompits, and K. Wang. Forgetting in managing rules and ontologies. In *IEEE/WIC/ACM International Conference on Web Intelligence (WI 2006), Hongkong, Dec. 2006*, pages 411–419. IEEE Computer Society, 2006. Preliminary version at ALPSWS 2006.
- [C100] Thomas Eiter, P. Traxler, and S. Woltran. An implementation for recognizing rule replacements in non-ground answer-set programs. In M. F. et al., editor, *Proceedings 8th European Conference on Logics in Artificial Intelligence – Journées Européennes sur la Logique en Intelligence Artificielle (JELIA 2006)*, number 4160 in LNCS, pages 477–480. Springer, 2006.
- [C101] Thomas Eiter and K. Wang. Forgetting and conflict resolving in disjunctive logic programming. In *Proceedings 21th National Conference on Artificial Intelligence (AAAI '06), July 16-23, 2006, Boston*. AAAI Press, 2006.
- [C102] Alexander Reiterer and T. Eiter. Ein neues Verfahren zur Evaluierung von Punkterfassungsalgorithmen (IOPs). In *6. Oldenburger 3D-Tage, Proceedings*. Wichmann Verlag, 2007. Presented also at the 8th Optical 3D Conference [103].
- [C103] Alexander Reiterer and T. Eiter. A new method for the evaluation of point detectors. In *8th Optical 3D Conference, Zurich, September 2007*, 2007. Poster Presentation.
- [C104] Davy Van Nieuwenborgh, T. Eiter, and D. Vermeir. Conditional planning with external functions. In C. Baral, G. Brewka, and J. Schlipf, editors, *Proceedings of the 9th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2007)*, number 4483 in Lecture Notes in Computer Science, pages 214–227. Springer, 2007.



- [C105] Diego Calvanese, T. Eiter, and M. Ortiz de la Fuente. Answering regular path queries in expressive description logics: An automata-theoretic approach. In *Proceedings 22nd Conference on Artificial Intelligence (AAAI '07)*, July 22-26, 2007, Vancouver, pages 391–397. AAAI Press, 2007.
- [C106] Gerd Brewka and T. Eiter. Equilibria in heterogeneous nonmonotonic multi-context systems. In *Proceedings 22nd Conference on Artificial Intelligence (AAAI '07)*, July 22-26, 2007, Vancouver, pages 385–390. AAAI Press, 2007.
- [C107] Jos de Bruijn, T. Eiter, A. Polleres, and H. Tompits. Embedding non-ground logic programs into autoepistemic logic for knowledge base combination. In M. Veloso, editor, *Proceedings of the 20th International Joint Conference on Artificial Intelligence (IJCAI-07)*, pages 304–309. AAAI Press/IJCAI, 2007.
- [C108] Mantas Šimkus and T. Eiter. FDNC: Decidable non-monotonic disjunctive logic programs with function symbols. In N. Dershowitz and A. Voronkov, editors, *Proceedings 14th International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR 2007)*, number 4790 in LNCS, pages 514–530. Springer, 2007.
- [C109] T. Eiter, M. Fink, H. Tompits, and S. Woltran. Complexity results for checking equivalence of stratified logic programs. In M. Veloso, editor, *Proceedings of the 20th International Joint Conference on Artificial Intelligence (IJCAI-07)*, pages 330–335. AAAI Press/IJCAI, 2007.
- [C110] Thomas Eiter. Answer set programming for the semantic web (tutorial). In I. Niemelä and V. Dahl, editors, *Proceedings 23rd International Conference on Logic Programming (ICLP 2007)*, number 4670 in Lecture Notes in Computer Science, pages 23–26. Springer, 2007.
- [C111] Alexander Reiterer, M. Lehmann, M. Miljanovic, H. Ali, G. Paar, U. Egly, T. Eiter, and H. Kahmen. Deformation monitoring using a new kind of optical 3d measurement system: Components and perspectives. In *Proceedings Joint FIG/IAAG Symposium on Deformation Measurements and Analysis/Geodesy for Geotechnical and Structural Engineering, Lisbon, 12-15 May 2008*, 2008.
- [C112] Jos de Bruijn, T. Eiter, and H. Tompits. Embedding approaches to combining rules and ontologies into autoepistemic logic. In *Proceedings 11th International Conference on Principles of Knowledge Representation and Reasoning (KR 2008)*, September 16-19, 2008, Sidney, Australia, pages 485–495, 2008.
- [C113] Magdalena Ortiz, M. Šimkus, and T. Eiter. Worst-case optimal conjunctive query answering for an expressive description logic without inverses. In *Proceedings 23rd Conference on Artificial Intelligence (AAAI '08)*, July 13-17, 2008, Chicago, pages 504–510. AAAI Press, 2008.
- [C114] Thomas Eiter. SMS and ASP: Hype or TST? In M. G. de la Banda and E. Pontelli, editors, *Proceedings 24th International Conference on Logic Programming (ICLP 2008)*, number 5366 in Lecture Notes in Computer Science, pages 77–82. Springer, 2008.
- [C115] Thomas Eiter, M. Fink, and J. Senko. Error classification in action descriptions: A heuristic approach. In *Proceedings 23rd Conference on Artificial Intelligence (AAAI '08)*, July 13-17, 2008, Chicago, pages 905–910. AAAI Press, 2008.
- [C116] Thomas Eiter, G. Gottlob, M. Ortiz, and M. Šimkus. Query answering in the description logic Horn-SHIQ. In S. Hölldobler, C. Lutz, and H. Wansing, editors, *Proceedings 11th European Conference on Logics in Artificial Intelligence (JELIA 2008)*, number 5293 in LNCS, pages 166–179. Springer, 2008. doi:10.1007/978-3-540-87803-2\_15.
- [C117] Thomas Eiter, G. Ianni, T. Krennwallner, and R. Schindlauer. Exploiting conjunctive queries in description logic programs. In B. Y. Choueiry and B. Givan, editors, *Informal Proceedings of the 10th International Symposium on Artificial Intelligence and Mathematics (ISAIM 2008)*, Ft. Lauderdale, Florida, January 2-4, 2008, 2008. (Invited paper).
- [C118] Thomas Eiter and K. Makino. New results for Horn cores and envelopes of Horn disjunctions. In M. Ghallab, C. Spyropoulos, N. Fakotakis, and N. Avouris, editors, *Proceedings of the 18th European Conference on Artificial Intelligence, ECAI'2008, Patras, Greece, July 21–25, 2008*, pages 60–64. IOS Press, 2008.
- [C119] Thomas Eiter, M. Ortiz, and M. Šimkus. Reasoning using knots. In I. Cervesato, H. Veith, and A. Voronkov, editors, *Proceedings 14th International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR 2008)*, number 5330 in LNCS, pages 377–390. Springer, 2008.
- [C120] Diego Calvanese, T. Eiter, and M. Ortiz. Regular path queries in expressive description logics with nominals. In C. Boutilier, editor, *Proceedings of the 21st International Joint Conference on Artificial Intelligence (IJCAI-09)*, pages 714–720. AAAI Press/IJCAI, 2009.
- [C121] Gerd Brewka and T. Eiter. Argumentation context systems: A framework for abstract group argumentation. In E. Erdem, F. Lin, and T. Schaub, editors, *Proceedings of the 10th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2009)*, volume 5753 of LNCS, pages 44–57. Springer, 2009.

- [C122] Gerd Brewka and T. Eiter. From data integration towards knowledge mediation. In E. Erdem, F. Lin, and T. Schaub, editors, *Proceedings of the 10th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2009)*, volume 5753 of *LNCS*, pages 610–612. Springer, 2009.
- [C123] Minh Dao-Tran, T. Eiter, M. Fink, and T. Krennwallner. Modular nonmonotonic logic programming revisited. In P. Hill and D. Warren, editors, *Proceedings 25th International Conference on Logic Programming (ICLP 2009)*, number 5649 in *Lecture Notes in Computer Science*, pages 145–159. Springer, 2009.
- [C124] Minh Dao-Tran, T. Eiter, M. Fink, and T. Krennwallner. Relevance-driven evaluation of modular nonmonotonic logic programs. In E. Erdem, F. Lin, and T. Schaub, editors, *Proceedings of the 10th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2009)*, volume 5753 of *LNCS*, pages 87–100. Springer, 2009.
- [C125] Minh Dao-Tran, T. Eiter, and T. Krennwallner. Realizing default logic over description logic knowledge bases. In C. Sossai and G. Chemello, editors, *Proc. 10th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty (ECSQARU 2009)*, volume 5590 of *Lecture Notes in Computer Science*, pages 602–613. Springer, 2009.
- [C126] Stijn Heymans, C. Feier, and T. Eiter. Reasoner for simple conceptual logic programs. In A. Polleres and T. Swift, editors, *Proceedings 3rd International Conference on Web Reasoning and Rule Systems (RR 2009)*, October 25–26, 2009, Chantilly, Virginia, USA, number 5837 in *LNCS*, pages 55–70. Springer, 2009.
- [C127] Tanja Vicovac, A. Reiterer, U. Egly, T. Eiter, and D. Rieke-Zapp. Smart videometric system. In *Proceedings 9th Conference on Optical 3D Measurement Techniques, Vienna, July 1–3, 2009*. First Development Steps for an Automated Knowledge-Based Deformation Interpretation System, 2009.
- [C128] Thomas Eiter, G. Brewka, M. Dao-Tran, M. Fink, G. Ianni, and T. Krennwallner. Combining nonmonotonic knowledge bases with external sources. In S. Ghilardi and R. Sebastiani, editors, *Proceedings 7th International Symposium on Frontiers of Combining Systems (FroCoS 2009)*, Trento, September 16–18, 2009, number 5749 in *LNCS*, pages 18–42. Springer, 2009.
- [C129] Thomas Eiter, E. Erdem, H. Erdoğan, and M. Fink. Finding similar or diverse solutions in answer set programming. In P. Hill and D. Warren, editors, *Proceedings 25th International Conference on Logic Programming (ICLP 2009)*, number 5649 in *Lecture Notes in Computer Science*, pages 342–356. Springer, 2009.
- [C130] Thomas Eiter, M. Fink, and T. Krennwallner. Decomposition of declarative knowledge bases with external functions. In C. Boutilier, editor, *Proceedings of the 21st International Joint Conference on Artificial Intelligence (IJCAI-09)*, pages 752–758. AAAI Press/IJCAI, 2009.
- [C131] Thomas Eiter, C. Lutz, M. Ortiz, and M. Šimkus. Query answering in description logics with transitive roles. In C. Boutilier, editor, *Proceedings of the 21st International Joint Conference on Artificial Intelligence (IJCAI-09)*, pages 759–764. AAAI Press/IJCAI, 2009.
- [C132] Thomas Eiter and M. Šimkus. Bidirectional answer set programs with function symbols. In C. Boutilier, editor, *Proceedings of the 21st International Joint Conference on Artificial Intelligence (IJCAI-09)*, pages 765–771. AAAI Press/IJCAI, 2009.
- [C133] Jörg Pührer, S. Heymans, and T. Eiter. Dealing with inconsistency when combining ontologies and rules using dl-programs. In L. Aroyo, G. Antoniou, E. Hyvönen, A. ten Teije, H. Stuckenschmidt, L. Cabral, and T. Tudorache, editors, *Proceedings 7th Extended Semantic Web Conference (ESWC 2010)*, number 6088 in *LNCS*, pages 183–197. Springer, 2010.
- [C134] Markus Bögl, T. Eiter, M. Fink, and P. Schüller. The MCS-IE system for explaining inconsistency in multi-context systems. In T. Janhunen and I. Niemelä, editors, *Proceedings 12th European Conference on Logics in Artificial Intelligence (JELIA 2010)*, *LNCS*, pages 356–359. Springer, 2010.
- [C135] Minh Dao-Tran, T. Eiter, M. Fink, and T. Krennwallner. Distributed nonmonotonic multi-context systems. In *Proceedings 12th International Conference on Principles of Knowledge Representation and Reasoning (KR 2010)*, May 9–13, 2010, Toronto, Canada, pages 60–70, 2010.
- [C136] Seif El-Din Bairakdar, M. Dao-Tran, T. Eiter, M. Fink, and T. Krennwallner. Decomposition of distributed nonmonotonic multi-context systems. In T. Janhunen and I. Niemelä, editors, *Proceedings 12th European Conference on Logics in Artificial Intelligence (JELIA 2010)*, *LNCS*, pages 24–37. Springer, 2010. Preliminary version at NMR 2010 [44].
- [C137] Seif El-Din Bairakdar, M. Dao-Tran, T. Eiter, M. Fink, and T. Krennwallner. The DMCS solver for distributed nonmonotonic multi-context systems. In T. Janhunen and I. Niemelä, editors, *Proceedings 12th European Conference on Logics in Artificial Intelligence (JELIA 2010)*, *LNCS*, pages 352–355. Springer, 2010.

- [C138] Stijn Heymans, T. Eiter, and G. Xiao. Tractable reasoning with DL-programs over Datalog-rewritable description logics. In M. W. et al., editor, *Proceedings of the 19th European Conference on Artificial Intelligence, ECAI'2010, Lisbon, Portugal, August 16-20, 2010*, pages 35–40. IOS Press, 2010.
- [C139] Stijn Heymans, R. Korf, M. Erdmann, J. Pührer, and T. Eiter. F-Logic#: Loosely coupling F-Logic rules and ontologies. In *IEEE/WIC/ACM International Conference on Web Intelligence (WI 2010), Toronto, Aug. 2010*, pages 248–255. IEEE Computer Society, 2010.
- [C140] Tanja Vicovac, A. Reiterer, U. Egly, T. Eiter, and D. Rieke-Zapp. Knowledge-based geo-risk assessment for an intelligent measurement system. In *Proceedings of the 3rd IFIP International Conference on Artificial Intelligence in Theory and Practice (IFIP AI 2010) as part of: IFIP World Computer Congress (WCC2010), Brisbane, Australia, September 20-23, 2010*, pages 215–224, 2010.
- [C141] Thomas Eiter, W. Faber, and M. Mushthofa. Space efficient evaluation of ASP programs with bounded predicate arities. In *Proceedings 24th Conference on Artificial Intelligence (AAAI '10), July 11-15, 2010, Atlanta*, pages 303–308. AAAI Press, 2010.
- [C142] Thomas Eiter, M. Fink, and J. Moura. Paracoherent answer set programming. In *Proceedings 12th International Conference on Principles of Knowledge Representation and Reasoning (KR 2010), May 9-13, 2010, Toronto, Canada*, pages 486–496, 2010.
- [C143] Thomas Eiter, M. Fink, and P. Schüller. Approximations for explanations of inconsistency in partially known multi-context systems. In J. Delgrande and W. Faber, editors, *Proceedings of the 11th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2011)*, volume 6645 of *LNCS*, pages 107–119. Springer, 2011. Preliminary version in Informal Proc. Conference Thirty Years of Nonmonotonicity (NonMon30) October 22–25, 2010, Lexington.
- [C144] Thomas Eiter, M. Fink, P. Schüller, and A. Weinzierl. Finding explanations of inconsistency in multi-context systems. In *Proceedings 12th International Conference on Principles of Knowledge Representation and Reasoning (KR 2010), May 9-13, 2010, Toronto, Canada*, pages 329–339, 2010.
- [C145] Thomas Eiter, M. Fink, and A. Weinzierl. Preference-based inconsistency assessment in multi-context systems. In T. Janhunnen and I. Niemelä, editors, *Proceedings 12th European Conference on Logics in Artificial Intelligence (JELIA 2010)*, *LNCS*, pages 143–155. Springer, 2010.
- [C146] Christian Drescher, T. Eiter, M. Fink, T. Krennwallner, and T. Walsh. Symmetry breaking for distributed multi-context systems. In J. Delgrande and W. Faber, editors, *Proceedings of the 11th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2011)*, volume 6645 of *LNCS*, pages 26–39. Springer, 2011.
- [C147] Christoph Redl, T. Eiter, and T. Krennwallner. Declarative belief set merging using merging plans. In R. Rocha and J. Launchbury, editors, *Proceedings 13th International Symposium on Practical Aspects of Declarative Languages (PADL 2011)*, volume 6539 of *LNCS*, pages 99–114. Springer, 2011.
- [C148] Gerd Brewka, T. Eiter, M. Fink, and A. Weinzierl. Managed multi-context systems. In T. Walsh, editor, *Proceedings of the 22nd International Joint Conference on Artificial Intelligence (IJCAI-11)*, pages 786–791. AAAI Press/IJCAI, 2011.
- [C149] Thomas Eiter, M. Fink, G. Ianni, T. Krennwallner, and P. Schüller. Pushing efficient evaluation of HEX programs by modular decomposition. In J. Delgrande and W. Faber, editors, *Proceedings of the 11th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2011)*, volume 6645 of *LNCS*, pages 93–106. Springer, 2011. Presented as **Best Paper of LPNMR 2011** at IJCAI 2011.
- [C150] Thomas Eiter, T. Krennwallner, P. Schneider, and G. Xiao. Uniform evaluation of nonmonotonic dl-programs. In T. Lukasiewicz and A. Sali, editors, *Proceedings 7th International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2012), Kiel, Germany, March 5–9, 2012*, number 7153 in *LNCS*, pages 1–22. Springer, 2012.
- [C151] Danh Le-Phuoc, M. Dao-Tran, M.-D. Pham, P. Boncz, T. Eiter, and M. Fink. Linked stream data processing engines: Facts and figures. In F. C. Mauroux, editor, *Proceedings of the 11th International Semantic Web Conference (ISWC 2012), Part II*, number 7650 in *LNCS*, pages 300–312. Springer, 2012. Experimental track.
- [C152] Grigoris Antoniou, T. Eiter, and K. Wang. Forgetting for defeasible logic. In N. Björner and A. Voronkov, editors, *Proceedings 18th International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR 2012)*, volume 7180 of *LNCS*, pages 77–91. Springer, 2012.
- [C153] Guohui Xiao, T. Eiter, and S. Heymans. The DREW system for nonmonotonic dl-programs. In J. Li, G. Qi, D. Zhao, W. Nejdl, and H.-T. Zheng, editors, *Semantic Web and Web Science: Proc. Joint Conference of the 6th Chinese Semantic*

*Web Symposium (CSWS2012) and the 1st Chinese Web Science Conference (CWSC2012), November 28-30, 2012, Shenzhen, China*, pages 383–389, New York, 2013. Springer Science+Business Media. doi:DOI 10.1007/978-1-4614-6880-6 33.

- [C154] Harald Beck, T. Eiter, and T. Krennwallner. Inconsistency management for traffic regulations: Formalization and complexity results. In L. F. del Cerro, A. Herzig, and J. Mengin, editors, *Proceedings 13th European Conference on Logics in Artificial Intelligence (JELIA 2012)*, number 7519 in LNCS, pages 80–93. Springer, 2012.
- [C155] Minh Dao-Tran, T. Eiter, M. Fink, G. Weidinger, and A. Weinzierl. OMiGA: An open minded grounding on-the-fly answer-set solver. In L. F. del Cerro, A. Herzig, and J. Mengin, editors, *Proceedings 13th European Conference on Logics in Artificial Intelligence (JELIA 2012)*, number 7519 in LNCS, pages 480–483. Springer, 2012.
- [C156] Thomas Eiter, M. Fink, G. Ianni, and P. Schüller. Towards a policy language for managing inconsistency in multi-context systems. In H. Tompits et al., editor, *Applications of Declarative Programming and Knowledge Management - 19th International Conference, INAP 2011, and 25th Workshop on Logic Programming, WLP 2011, Vienna, Austria, September 28-30, 2011, Revised Selected Papers*, number 7773 in LNCS, pages 3–26. Springer, 2013. Preliminary version in Proc. 2nd Int'l Workshop on Logic-Based Interpretation of Context (LOG-IC 2011).
- [C157] Thomas Eiter, M. Fink, T. Krennwallner, C. Redl, and P. Schüller. Exploiting unfounded sets for HEX-program evaluation. In L. F. del Cerro, A. Herzig, and J. Mengin, editors, *Proceedings 13th European Conference on Logics in Artificial Intelligence (JELIA 2012)*, number 7519 in LNCS, pages 160–175. Springer, 2012.
- [C158] Thomas Eiter, M. Fink, and D. Stepanova. Semantic independence in DL-programs. In M. Krötzsch and U. Straccia, editors, *Proc. 6th International Conference on Web Reasoning and Rule Systems (RR 2012), Sept.10-12, 2012, Vienna, Austria*, number 7497 in LNCS, pages 58–74. Springer, 2012.
- [C159] Thomas Eiter, T. Krennwallner, M. Prandtstetter, C. Rudloff, P. Schneider, and M. Straub. Semantically enriched multi-modal routing. In *Proc. 19th World Congress on Intelligent Transport Systems (ITSWC-2012), Vienna, October 22-26, 2012*, 2012.
- [C160] Thomas Eiter, M. Ortiz, M. Šimkus, K. Trung-Tran, and G. Xiao. Query rewriting for Horn-*SHIQ* plus rules. In *Proceedings 26th Conference on Artificial Intelligence (AAAI '12), July 22-26, 2012, Toronto*, pages 726–733. AAAI Press, 2012.
- [C161] Christian Antić, T. Eiter, and M. Fink. HEX semantics via approximation fixpoint theory. In P. Cabalar and S. Tran Cao, editors, *Proceedings of the 12th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2013)*, volume 8148 of LNCS, pages 102–115. Springer, 2013.
- [C162] Thomas Eiter, M. Fink, T. Krennwallner, and C. Redl. Liberal safety for answer set programs with external sources. In M. desJardins and M. L. Littman, editors, *Proceedings 27th Conference on Artificial Intelligence (AAAI '13), July 14-18 2013, Bellevue, Washington*, pages 267–275. AAAI Press, 2013.
- [C163] Thomas Eiter, M. Fink, C. Redl, and T. Krennwallner. HEX-programs with existential quantification. In M. Hanus and R. Rocha, editors, *Declarative Programming and Knowledge Management - Declarative Programming Days, KDPD 2013, Unifying INAP, WFLP, and WLP, Kiel, Germany, September 11-13, 2013, Revised Selected Papers*, volume 8439 of LNCS. Springer, 2013.
- [C164] Thomas Eiter, M. Fink, and D. Stepanova. Data repair of inconsistent dl-programs. In F. Rossi, editor, *Proceedings of the 23rd International Joint Conference on Artificial Intelligence (IJCAI-13), August 3-9, 2013, Beijing, China*, pages 869–876. AAAI Press/IJCAI, 2013.
- [C165] Thomas Eiter, M. Fink, and D. Stepanova. Inconsistency management for description logic programs and beyond. In D. Lembo and W. Faber, editors, *Proc. 7th International Conference on Web Reasoning and Rule Systems (RR 2013), July 27-29, 2013, Mannheim, Germany*, number 7994 in LNCS, pages 1–3. Springer, 2013.
- [C166] Thomas Eiter, T. Krennwallner, and C. Redl. HEX-programs with nested program calls. In H. Tompits et al., editor, *Applications of Declarative Programming and Knowledge Management - 19th International Conference, INAP 2011, and 25th Workshop on Logic Programming, WLP 2011, Vienna, Austria, September 28-30, 2011, Revised Selected Papers*, number 7773 in LNCS, pages 269–278. Springer, 2013.
- [C167] Thomas Eiter, T. Krennwallner, and P. Schneider. Lightweight spatial conjunctive query answering using keywords. In P. Cimiano et al., editor, *Proceedings 10th Extended Semantic Web Conference (ESWC 2013)*, number 7882 in LNCS, pages 243–258. Springer, 2013.
- [C168] Yisong Wang, J.-H. You, L. Yuan, Y.-D. Shen, and T. Eiter. Eliminating nonmonotonic DL-atoms in description logic programs. In D. Lembo and W. Faber, editors, *Proc. 7th International Conference on Web Reasoning and Rule Systems (RR 2013), July 27-29, 2013, Mannheim, Germany*, number 7994 in LNCS, pages 168–182. Springer, 2013.

- [C169] Giovanni Amendola, T. Eiter, and N. Leone. Modular paracoherent answer sets. In E. Fermé and J. Leite, editors, *Proc. 14th European Conference on Logics in Artificial Intelligence (JELIA 2014), September 24-26, 2014, Madeira, Portugal*, number 8761 in LNCS/LNAI, pages 457–471. Springer, 2014.
- [C170] Loris Bozzato, T. Eiter, and L. Serafini. Defeasibility in contextual reasoning with CKR. In L. Giordano, V. Gliozzi, and G. L. Pozzato, editors, *Proceedings of the 29th Italian Conference on Computational Logic, Torino, Italy, June 16-18, 2014*, volume 1195 of *CEUR Workshop Proceedings*, pages 132–146. CEUR-WS.org, 2014.
- [C171] Thomas Eiter, M. Fink, C. Redl, and D. Stepanova. Exploiting support sets for answer set programs with external evaluations. In C. Brodley and P. Stone, editors, *Proceedings 28th Conference on Artificial Intelligence (AAAI '14), July 27–31 2014, Quebec City, Canada*, pages 1041–1048. AAAI Press, 2014.
- [C172] Thomas Eiter, M. Fink, and D. Stepanova. Computing repairs for inconsistent dl-programs over  $\mathcal{EL}$  ontologies. In E. Fermé and J. Leite, editors, *Proc. 14th European Conference on Logics in Artificial Intelligence (JELIA 2014), September 24-26, 2014, Madeira, Portugal*, number 8761 in LNCS/LNAI, pages 426–441. Springer, 2014.
- [C173] Thomas Eiter, M. Fink, and D. Stepanova. Towards practical deletion repair of inconsistent dl-programs. In T. Schaub et al., editor, *Proceedings of the 21st European Conference on Artificial Intelligence, ECAI'2014, Prague, Czech Republic, August 18-22, 2014*, pages 285–290. IOS Press, 2014. Also presented at the 27th International Workshop on Description Logics (DL-2014), Vienna, Austria, July 17-20, 2014.
- [C174] Cristina Feier and T. Eiter. Reasoning with forest logic programs using fully enriched automata. In F. Calimeri, G. Ianni, and M. Truszczyński, editors, *Proceedings of the 13th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2015)*, volume 9345 of LNCS, pages 346–353. Springer, 2015. Also in *Informal Proc. Workshop on Ontologies and Logic Programming for Query Answering (ONTOLP) at IJCAI-2015*, 2015.
- [C175] Harald Beck, M. Dao-Tran, and T. Eiter. Answer update for rule-based stream reasoning. In Q. Yang and M. Wooldridge, editors, *Proceedings of the 24th International Joint Conference on Artificial Intelligence (IJCAI-15), July 25-31, 2015, Buenos Aires, Argentina*, pages 2741–2747. AAAI Press/IJCAI, 2015.
- [C176] Harald Beck, M. Dao-Tran, and T. Eiter. Contrasting RDF stream processing semantics. In G. Qi, K. Kozaki, J. Z. Pan, and S. Yu, editors, *Semantic Technology – 5th Joint International Semantic Technology Conference (JIST 2015), November 11-13, 2015, Yichang, China, Revised Selected Papers*, number 9544 in Lecture Notes in Computer Science, pages 289–298. Springer International Publishing Switzerland, 2015.
- [C177] Harald Beck, M. Dao-Tran, T. Eiter, and M. Fink. LARS: A logic-based framework for analyzing reasoning over streams. In B. Bonet and S. Koenig, editors, *Proceedings 29th Conference on Artificial Intelligence (AAAI '15), January 25-30, 2015, Austin, Texas, USA*, pages 1431–1438. AAAI Press, 2015.
- [C178] Thomas Eiter, P. Schneider, M. Šimkus, G. Xiao, and J. Z. Pan. A rule-based framework for creating instance data from OpenStreetMap. In A. Mileo and B. ten Cate, editors, *Proc. 9th International Conference on Web Reasoning and Rule Systems (RR 2015), August 4-5, 2015, Berlin, Germany*, number 9202 in Lecture Notes in Computer Science, pages 93–104. Springer, 2015.
- [C179] Thomas Eiter and M. Šimkus. Linking open-world knowledge bases with nonmonotonic rules. In F. Calimeri, G. Ianni, and M. Truszczyński, editors, *Proceedings of the 13th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2015)*, volume 9345 of LNCS, pages 294–308. Springer, 2015.
- [C180] Andreas Moßburger, H. Beck, M. Dao-Tran, and T. Eiter. A benchmarking framework for stream processors. In *Poster and Demos Proc. 20th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2016), Bologna, Italy, November 19-23, 2016*, LNCS. Springer, 2016. Poster.
- [C181] Harald Beck, B. Bierbaumer, M. Dao-Tran, T. Eiter, H. Hellwagner, and K. Schekotihin. Rule-based stream reasoning for adaptive operation of content-centric networks. In L. Michael and A. C. Kakas, editors, *Proc. 15th European Conference on Logics in Artificial Intelligence (JELIA 2016)*, volume 10021 of *Lecture Notes in Computer Science*, pages 522–528, 2016. Short paper (poster).
- [C182] Harald Beck, M. Dao-Tran, and T. Eiter. Equivalent stream reasoning programs. In S. Kambhampati and G. Brewka, editors, *Proceedings of the 25th International Joint Conference on Artificial Intelligence (IJCAI-16), July 9-15, 2016, New York, USA*, pages 929–935. AAAI Press/IJCAI, 2016.
- [C183] Thomas Eiter. Artificial intelligence at the gates of dawn? In H. C. Mayr and M. Pinzger, editors, *Informatik 2016, 46. Jahrestagung der Gesellschaft für Informatik, 26.-30. September 2016, Klagenfurt, Österreich*, volume P-259 of LNI, pages 37–38. GI, 2016. (Talk abstract).

- [C184] Thomas Eiter, H. Füreder, F. Kasslatter, J. X. Parreira, and P. Schneider. Towards a semantically enriched local dynamic map. In *Proceedings 23rd World Congress on Intelligent Transport Systems (ITSWC-2016), Melbourne, October 10-14, 2016*, 2016.
- [C185] Thomas Eiter and T. Kaminski. Hybrid classification of visual objects exploiting contextual knowledge. In L. Michael and A. C. Kakas, editors, *Proc. 15th European Conference on Logics in Artificial Intelligence (JELIA 2016), Declarative Programming Paradigms and Systems*, volume 10021 of *Lecture Notes in Computer Science*, pages 223–239, 2016.
- [C186] Thomas Eiter, T. Kaminski, C. Redl, and A. Weinzierl. Exploiting partial assignments for efficient evaluation of answer set programs with external source access. In S. Kambhampati and G. Brewka, editors, *Proceedings of the 25th International Joint Conference on Artificial Intelligence (IJCAI-16), July 9-15, 2016, New York, USA*, pages 1058–1065. AAAI Press/IJCAI, 2016.
- [C187] Thomas Eiter, T. Lukasiewicz, and L. Predoiu. Generalized consistent query answering under existential rules. In C. Baral, J. Delgrande, and F. Wolter, editors, *Proceedings 15th International Conference on Principles of Knowledge Representation and Reasoning (KR 2016), April 25-29, 2016, Cape Town, South Africa*, pages 359–368. AAAI Press, 2016.
- [C188] Zeynep Gozen Saribatur and T. Eiter. Reactive policies with planning for action languages. In L. Michael and A. C. Kakas, editors, *Proc. 15th European Conference on Logics in Artificial Intelligence (JELIA 2016)*, volume 10021 of *Lecture Notes in Computer Science*, pages 463–480, 2016. Preliminary version in NMR 2016.
- [C189] Harald Beck, B. Bierbaumer, M. Dao-Tran, T. Eiter, H. Hellwagner, and K. Schekotihin. Stream reasoning-based control of caching strategies in CCN routers. In *IEEE International Conference on Communications, ICC 2017, Paris, France, May 21-25, 2017*, pages 1–6, 2017.
- [C190] Minh Dao-Tran and T. Eiter. Streaming multi-context systems. In C. Sierra, editor, *Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI-17), August 19-25, 2017, Melbourne, Australia*, pages 1000–1007. AAAI Press/IJCAI, 2017.
- [C191] Patrik Schneider, T. Eiter, and J. X. Parreira. Spatial ontology-mediated query answering over mobility streams. In E. Blomqvist, D. Maynard, A. Gangemi, R. Hoekstra, P. Hitzler, and O. Hartig, editors, *Proceedings 14th Extended Semantic Web Conference (ESWC 2017), Portorož, Slovenia, May 28 – June 1, 2017*, number 10249 in *Lecture Notes in Computer Science*, pages 219–237. Springer, 2017. **Best Paper Award**. Preliminary version [191] at SR@ISWC’16 Workshop.
- [C192] Thomas Eiter, T. Kaminski, and A. Weinzierl. Lazy-grounding for answer-set programs with external source access. In C. Sierra, editor, *Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI-17), August 19-25, 2017, Melbourne, Australia*, pages 1015–1022. AAAI Press/IJCAI, 2017.
- [C193] Thomas Eiter, J. X. Parreira, and P. Schneider. Detecting mobility patterns using spatial query answering over streams. In *Joint Proc. Web Stream Processing workshop (WSP 2017) and the 2nd International Workshop on Ontology Modularity, Contextuality, and Evolution (WOMoCoE 2017) co-located with (ISWC 2017), Vienna, Austria, October 22nd, 2017*, pages 17–32, 2017. <http://ceur-ws.org/Vol-1936/>.
- [C194] Yi-Dong Shen and T. Eiter. Evaluating epistemic negation in answer set programming (extended abstract). In C. Sierra, editor, *Proceedings of the 26th International Joint Conference on Artificial Intelligence (IJCAI-17), August 19-25, 2017, Melbourne, Australia*, pages 5060–5064. ijcai.org, 2017. Journal Track.
- [C195] Zeynep Gozen Saribatur, C. Baral, and T. Eiter. Reactive maintenance policies over equalized states in dynamic environments. In E. C. Oliveira, J. Gama, Z. A. Vale, and H. L. Cardoso, editors, *Proc. 18th Portuguese Conference on Artificial Intelligence (EPIA 2017)*, volume 10423 of *Lecture Notes in Computer Science*, pages 709–723, 2017.
- [C196] Harald Beck, M. Dao-Tran, and T. Eiter. LARS: A logic-based framework for analytic reasoning over streams - (extended abstract). In A. M. Tjoa, L. Bellatreche, S. Biffl, J. van Leeuwen, and J. Wiedermann, editors, *SOFSEM 2018: Theory and Practice of Computer Science - 44th International Conference on Current Trends in Theory and Practice of Computer Science, Krems, Austria, January 29 - February 2, 2018, Proceedings*, volume 10706 of *Lecture Notes in Computer Science*, pages 87–93, 2018.
- [C197] Ingo J. Timm, S. Staab, M. Siebers, C. Schon, U. Schmid, K. Sauerwald, L. Reuter, M. Ragni, C. Niederée, H. Maus, G. Kern-Isberner, C. Jilek, P. Friemann, T. Eiter, A. Dengel, H. Dames, T. Bock, J. O. Berndt, and C. Beierle. Intentional forgetting in artificial intelligence systems: Perspectives and challenges. In F. Trollmann and A.-Y. Turhan, editors, *Proc. 41st German Conference on AI (KI 2018), Berlin, Germany, September 24-28, 2018*, volume 11117 of *Lecture Notes in Computer Science*, pages 357–365. Springer, 2018.

- [C198] Loris Bozzato, T. Eiter, and L. Serafini. Enhancing context knowledge repositories with justifiable exceptions (extended abstract). In J. Lang, editor, *Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence, IJCAI 2018, July 13-19, 2018, Stockholm, Sweden.*, pages 5568–5572. ijcai.org, 2018. Journal Track.
- [C199] Loris Bozzato, T. Eiter, and L. Serafini. Reasoning with justifiable exceptions in contextual hierarchies. In M. Thielscher, F. Wolter, and F. Toni, editors, *Proceedings 16th International Conference on Principles of Knowledge Representation and Reasoning (KR 2018), October 30 – November 2, 2018, Tempe, Arizona, USA*, pages 329–338. AAAI Press, 2018.
- [C200] Thomas Eiter, R. Ichise, J. X. Parreira, P. Schneider, and L. Zhao. Deploying spatial-stream query answering in C-ITS scenarios. In C. Faron-Zucker, C. Ghidini, A. Napoli, and Y. Toussaint, editors, *Proc. 22nd International Conference on Knowledge Engineering and Knowledge Management (EKAW 2018), Nancy, France, November 13-18, 2018*, volume 11313 of *LNCS*, pages 1–21. Springer, 2018. **runner-up for the Best Paper Award.**
- [C201] Thomas Eiter and A. Weinzierl. Preference-based inconsistency management in multi-context systems (extended abstract). In J. Lang, editor, *Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence, IJCAI 2018, July 13-19, 2018, Stockholm, Sweden.*, pages 5593–5597. ijcai.org, 2018. Journal Track.
- [C202] Tobias Kaminski, T. Eiter, and K. Inoue. Efficiently encoding Meta-Interpretive Learning by Answer Set Programming. In *Proceedings 28th Conference on Inductive Logic Programming (ILP 2018), work in progress track*, 2018. online <http://ilp2018.unife.it/accepted-work-in-progress-papers/>.
- [C203] Zeynep Gozen Saribatur and T. Eiter. Omission-based abstraction for answer set programs. In M. Thielscher, F. Wolter, and F. Toni, editors, *Proceedings 16th International Conference on Principles of Knowledge Representation and Reasoning (KR 2018), October 30 – November 2, 2018, Tempe, Arizona, USA*, pages 42–51. AAAI Press, 2018. Shortlisted for the Ray Reiter Best Paper Award and the Marco Cadoli Best Student Paper Award.
- [C204] Loris Bozzato, T. Eiter, and L. Serafini. Justifiable exceptions in general contextual hierarchies. In G. Bella and P. Bouquet, editors, *Proceedings of the 11th International and Interdisciplinary Conference on Modeling and Using Context (CONTEXT 2019), November 20-22, 2019 Trento, Italy*, number 11939 in *Lecture Notes in Computer Science*, pages 1–14. Springer, 2019.
- [C205] Loris Bozzato, T. Eiter, and L. Serafini. Reasoning on dl-lite, with defeasibility in ASP. In P. Fodor, M. Montali, D. Calvanese, and D. Roman, editors, *Proceedings of the 3rd International Joint Conference on Rules and Reasoning (RuleML+RR 2019), September 16-19, 2019 - Bolzano, Italy*, number 11784 in *Lecture Notes in Computer Science*, pages 1–17. Springer, 2019. **Best Paper Award.**
- [C206] Thomas Eiter and T. Kaminski. Pruning external minimality checking for ASP using semantic dependencies. In M. Balduccini, Y. Lierler, and S. Woltran, editors, *Proceedings of the 15th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2019)*, volume 11481 of *LNCS*, pages 326–339. Springer, 2019. **Best Student Paper Award.**
- [C207] Tobias Kaminski, T. Eiter, and K. Inoue. Exploiting answer set programming with external sources for meta-interpretive learning. In S. Kraus, editor, *Proceedings of the Twenty-Seventh International Joint Conference on Artificial Intelligence, IJCAI 2019, August 10-16, 2019, Macao.*, pages 6186–6190. ijcai.org, 2019. Short Version of the ICLP 2018 paper (Sister Conferences Best Paper Track).
- [C208] Zeynep Gozen Saribatur, T. Eiter, and P. Schüller. Abstraction for non-ground answer set programs. In F. Calimeri and M. Manna, editors, *Proc. 16th European Conference on Logics in Artificial Intelligence (JELIA 2019), Declarative Programming Paradigms and Systems*, volume 11468 of *Lecture Notes in Computer Science*, pages 576–592, 2019.
- [C209] Loris Bozzato, T. Eiter, and L. Serafini. Reasoning with justifiable exceptions in contextual hierarchies. In G. de Giacomo et al., editor, *Proceedings of the 24th European Conference on Artificial Intelligence, ECAI’2020, Santiago de Compostela, Spain, June 8-12, 2020*, pages 2889–2890. IOS Press, 2020.
- [C210] Thomas Eiter, A. Falkner, P. Schneider, and P. Schüller. ASP-based signal plan adjustments for traffic flow optimization. In G. de Giacomo et al., editor, *Proceedings 10th Conference on Prestigious Applications of Intelligent Systems (PAIS’2020/ ECAI 2020), Santiago de Compostela, Spain, June 8-12, 2020*, pages 3026–3033. IOS Press, 2020.
- [C211] Thomas Eiter and R. Kiesel. Weighted LARS for quantitative stream reasoning. In G. de Giacomo et al., editor, *Proceedings of the 24th European Conference on Artificial Intelligence, ECAI’2020, Santiago de Compostela, Spain, June 8-12, 2020*, pages 729–736. IOS Press, 2020.
- [C212] Thomas Eiter, Z. G. Saribatur, and P. Schüller. Abstraction for zooming-in to unsolvability reasons of grid-cell problems. In D. Calvanese, E. Erdem, and M. Thielscher, editors, *Proceedings 17th International Conference on Principles of Knowledge Representation and Reasoning (KR 2020), Sept 12–18, 2020, Rhodes, Greece.* IJCAI, 2020. Recently Published Research Track (abstract).

- [C213] Yi-Dong Shen and T. Eiter. Determining inference semantics for disjunctive logic programs (extended abstract). In C. Bessiere, editor, *Proceedings of the 29th International Joint Conference on Artificial Intelligence (IJCAI-20)*, [scheduled for July 2020, Yokohama, Japan, postponed due to the Corona pandemic], pages 5040–5044. ijcai.org, 2020. Journal Track.
- [C214] Zeynep Gozen Saribatur and T. Eiter. A semantic perspective on omission abstraction in ASP. In D. Calvanese, E. Erdem, and M. Thielscher, editors, *Proceedings 17th International Conference on Principles of Knowledge Representation and Reasoning (KR 2020)*, Sept 12–18, 2020, Rhodos, Greece, pages 733–737. IJCAI, 2020.
- [C215] Danh Le-Phuoc, T. Eiter, and A. Le-Tuan. A scalable reasoning and learning approach for neural-symbolic stream fusion. In *Proceedings 35th Conference on Artificial Intelligence (AAAI '21)*, Virtual Event, February 2-9, 2021, pages 4996–5005. AAAI Press, 2021.
- [C216] Thomas Eiter, T. Geibinger, N. Musliu, J. Oetsch, P. Skocovsky, and D. Stepanova. Answer-set programming for lexicographical makespan optimisation in parallel machine scheduling. In M. Bienvenu, G. Lakemeyer, and E. Erdem, editors, *Proceedings of the 18th International Conference on Principles of Knowledge Representation and Reasoning (KR 2021)*, Online event, November 3-12, 2021, pages 269–279, 2021.
- [C217] Thomas Eiter, M. Hecher, and R. Kiesel. Treewidth-aware cycle breaking for algebraic answer set counting. In M. Bienvenu, G. Lakemeyer, and E. Erdem, editors, *Proceedings of the 18th International Conference on Principles of Knowledge Representation and Reasoning (KR 2021)*, Online event, November 3-12, 2021, pages 269–279, 2021.
- [C218] Thomas Eiter, A. Hunter, and F. Schwarzentruher. How hard to tell? complexity of belief manipulation through propositional announcements. In Z. Zhou, editor, *Proceedings of the 30th International Joint Conference on Artificial Intelligence (IJCAI-21)*, Virtual Event / Montreal, August 19–27, 2021, pages 1866–1872. ijcai.org, 2021.
- [C219] Thomas Eiter and R. Kiesel. On the complexity of sum-of-products problems over semirings. In *Proceedings 35th Conference on Artificial Intelligence (AAAI '15)*, Virtual Event, February 2-9, 2021, pages 6304–6311. AAAI Press, 2021.
- [C220] Jacopo Urbani, M. Krötzsch, and T. Eiter. Chasing streams with existential rules. In G. Kern-Isberner, G. Lakemeyer, and T. Meyer, editors, *Proceedings 19th International Conference on Principles of Knowledge Representation and Reasoning (KR 2022)*, July 31 – August 5, 2022, Haifa, Israel. IJCAI, 2022.
- [C221] Thomas Eiter, T. Geibinger, N. Musliu, J. Oetsch, N. Ruiz, and D. Stepanova. ALASPO: an adaptive large-neighbourhood asp optimiser. In G. Kern-Isberner, G. Lakemeyer, and T. Meyer, editors, *Proceedings 19th International Conference on Principles of Knowledge Representation and Reasoning (KR 2022)*, July 31 – August 5, 2022, Haifa, Israel. IJCAI, 2022.
- [C222] Thomas Eiter, T. Geibinger, N. Musliu, J. Oetsch, N. Ruiz, and D. Stepanova. Large-neighbourhood search for optimisation in answer-set solving. In *Proceedings 36th Conference on Artificial Intelligence (AAAI '22)*, Vancouver, Canada, 2022. AAAI Press, 2022. In press.
- [C223] Yi-Dong Shen and T. Eiter. Considering constraint monotonicity and foundedness in answer set programming. In L. de Raedt, editor, *Proceedings of the 31st International Joint Conference on Artificial Intelligence (IJCAI-22)*, Vienna, July 23–29, 2022. ijcai.org, 2022.
- [C224] Zeynep Gozen Saribatur, T. Eiter, and P. Schüller. Abstraction for non-ground answer set programs (extended abstract). In L. de Raedt, editor, *Proceedings of the 31st International Joint Conference on Artificial Intelligence (IJCAI-22)*, Vienna, July 23–29, 2022. ijcai.org, 2022. Journal Track.

## Workshops

- [W1] T. Eiter and G. Gottlob. Complexity Results for Logic-Based Abduction. In H. Blair, W. Marek, A. Nerode, and J. Remmel, editors, *Informal Proceedings of the Workshop on Structural Complexity and Recursion-Theoretic Methods in Logic Programming*, pages 29–44, Washington DC, November 1992. Cornell University, Mathematical Sciences Institute.
- [W2] T. Eiter, G. Gottlob, and H. Mannila. Expressive Power and Complexity of Disjunctive Datalog. In H. Blair, W. Marek, A. Nerode, and J. Remmel, editors, *Informal Proceedings of the Second Workshop on Structural Complexity and Recursion-Theoretic Methods in Logic Programming*, pages 59–79, Vancouver, October 29 1993. Cornell University, Mathematical Sciences Institute.
- [W3] T. Eiter, G. Gottlob, and H. Mannila. Disjunctive Logic Programming over Finite Structures. In B. Wolfinger, editor, *Innovationen bei Rechen- und Kommunikationssystemen (13th IFIP World Computer Congress, proceedings workshop FG2: Disjunctive Logic Programming and Disjunctive Databases)*, pages 69–73, Berlin, August 1994. Springer.



- [W4] T. Eiter, G. Gottlob, and H. Mannila. Expressive Power and Complexity of Disjunctive Datalog under the Stable Model Semantics. In K. van Luck and H. Marburger, editors, *Management and Processing of Complex Data Structures – Proceedings of the Third Workshop on Information Systems and Artificial Intelligence*, number 777 in LNCS, pages 83–103. Springer, 1994.
- [W5] Thomas Eiter and N. Leone. On Modularity Properties of Partial Semantics for Disjunctive Logic Programs. In A. Krall and U. Geske, editors, *Proceedings 11th GI Workshop on Logic Programming (WLP '95)*, pages 217–226, Vienna, Sept. 27–29, 1995. GMD-Studien Nr. 270, Gesellschaft für Mathematik und Datenverarbeitung (GMD).
- [W6] Thomas Eiter. KI-Basierte Diagnose. In H. Kröger and M. Kutrib, editors, *Proceedings Interdisziplinärer Workshop Informatik an der JLU Gießen*, pages 40–50, March 1996 1997. Bericht AG Informatik 9602, JLU Gießen.
- [W7] Thomas Eiter, N. Leone, and D. Saccà. Expressive Power of Partial Models for Disjunctive Deductive Databases. In D. Pedreschi and C. Zaniolo, editors, *Proceedings International Workshop on Logic in Databases (LID '96)*, number 1154 in LNCS, pages 245–264. Springer, 1996.
- [W8] Thomas Eiter, N. Leone, and D. Saccà. Partial Semantics for Disjunctive Deductive Databases. In R. Wagner and H. Thoma, editors, *Proceedings 7th International Conference and Workshop on Database and Expert Systems Applications (DEXA 96)*, number 1134 in LNCS, pages 564–573. Springer, 1996.
- [W9] Thomas Eiter, K. Makino, and T. Ibaraki. On satisfiability of partially defined double and bidual Horn functions. In J. Franco *et al.*, editor, *Proceedings Workshop on the Satisfiability Problem*, pages 5–14, Siena, Italy, April 29 – May 3, 1996. Inst. f. Angewandte Mathematik und Informatik, Univ. Köln, Report No. 96-230.
- [W10] Francesco Buccafurri, T. Eiter, G. Gottlob, and N. Leone. Combining Abduction and Model Checking Techniques for Repair of Concurrent Programs. In J. Albrecht and G. Nemeth, editors, *Proceedings of the 2nd Workshop on Trends in Theoretical Informatics*, pages 91–101, March 9–14, 1997, Budapest, 1998. Periodica Polytechnica, TU Budapest, Ser. El. Eng. 42(1).
- [W11] S. Citrigno, T. Eiter, W. Faber, G. Gottlob, G. Koch, N. Leone, C. Mateis, G. Pfeifer, and F. Scarcello. The dlV System: Model Generator and Advanced Frontends. In F. Bry, B. Freitag, and D. Seipel, editors, *Proceedings 12th Workshop on Logic Programming (WLP '97)*, pages 128–137. LMU München, September 1997.
- [W12] Francesco Buccafurri, T. Eiter, G. Gottlob, and N. Leone. Applying Abduction Techniques in Verification. In J. Minker and J. McCarthy, editors, *Proc. Workshop on Logic-Based AI*, June 14–16, 1999, Washington DC, 1999. Preprint.
- [W13] Thomas Eiter and V. Subrahmanian. Deontic Action Programs. In T. Polle, T. Ripke, and K.-D. Schewe, editors, *Fundamentals of Information Systems: Selected Papers presented at the 7th International Workshop on Foundations of Models and Languages for Data and Objects (FoMLaDO 98), October 5–8, 1998, Timmel, Germany*, pages 37–54. Kluwer, 1999. ISBN 0-7923-8450-4.
- [W14] Thomas Eiter, V. Subrahmanian, and T. Rogers. Regular Agent Programs in IMPACT. In P. Van Roy and P. Tarru, editors, *Proceedings International Workshop on Distributed and Internet Programming with Logic and Constraint Languages (DIPLCL 99)*, Las Cruces, New Mexico, November 1999. <http://www.cs.unt.edu/~diplcl99/Proceedings/>.
- [W15] T. Eiter, W. Faber, N. Leone, G. Pfeifer, and G. Koch. DLV – A System for Declarative Problem Solving. In C. Baral and M. Truszczynski, editors, *Proceedings Workshop on Nonmonotonic Reasoning (NMR-2000), Systems Track*, April 2000. Paper available under arXiv:cs.AI/0003036 (8 March 2000).
- [W16] T. Eiter, W. Faber, N. Leone, G. Pfeifer, and A. Polleres. Using the dlV System for Planning and Diagnostic Reasoning. In F. Bry, U. Geske, and D. Seipel, editors, *Proceedings 14th Workshop on Logic Programming (WLP '99)*, pages 125–134, January 26–28, 2000, Würzburg, Germany, 2000. GMD, Berlin. ISSN 1435-2702.
- [W17] Thomas Eiter, G. Gottlob, and H. Veith. Generalized Quantifiers in Logic Programs. In J. Väänänen, editor, *Generalized Quantifiers and Computation, 9th European Summer School in Logic, Language, and Information, ESSLLI'97 Workshop, Aix-en-Provence, France, August 11-22, 1997, Revised Lectures*, number 1754 in LNCS, pages 72–98. Springer, 2000.
- [W18] Uwe Egly, T. Eiter, V. Klotz, H. Tompits, and S. Woltran. Experimental Evaluation of the Disjunctive Logic Programming Module of the System QUIP\*. In S. Abdennadher, U. Geske, and D. Seipel, editors, *Proceedings 15th Workshop on Logic Programming and Constraint Systems (WLP '00), August, 2000, Berlin, Germany*, pages 113–122, Berlin, 2000. GMD, Report 110. ISBN 3-88457-972-X.
- [W19] Uwe Egly, T. Eiter, H. Tompits, and S. Woltran. Implementing Default Reasoning Using Quantified Boolean Formulae. In F. Bry, U. Geske, and D. Seipel, editors, *Proceedings 14th Workshop on Logic Programming (WLP '99)*, pages 223–225, January 26–28, 2000, Würzburg, Germany, 2000. GMD, Berlin. ISSN 1435-2702.

- [W20] Uwe Egly, T. Eiter, H. Tompits, and S. Woltran. QUIP: A Tool for Computing Nonmonotonic Reasoning Tasks. In C. Baral and M. Truszczynski, editors, *Proceedings Workshop on Nonmonotonic Reasoning (NMR-2000), Systems Track*, April 2000. Paper available under arXiv:cs.AI/0003037 (8 March 2000).
- [W21] Thomas Eiter, W. Faber, N. Leone, G. Pfeifer, and A. Polleres. The DLV<sup>K</sup> planning system. In A. Cimatti, H. Geffner, E. Giunchiglia, and J. Rintanen, editors, *Informal Proc. IJCAI-01 Workshop on Planning under Uncertainty and Incomplete Information*, pages 76–81, August 2001.
- [W22] U. Egly, T. Eiter, V. Klotz, H. Tompits, and S. Woltran. On Mechanizing Modal Nonmonotonic Logics. In *Informal Proceedings Fifth Dutch-German Workshop on Nonmonotonic Reasoning Techniques and their Applications (DGNMR '2001), April 4-6, 2001, Potsdam, Germany, 2001*.
- [W23] T. Eiter, W. Faber, M. Fink, G. Pfeifer, and S. Woltran. Complexity of answer set checking and bounded predicate arities for non-ground answer set programming. In M. de Vos and A. Proveti, editors, *Proceedings ASP03 - Answer Set Programming: Advances in Theory and Implementation, Messina, Italy, September 2003*, number 78 in CEUR Workshop Proceedings, pages 69–83, 2003. Online <http://CEUR-WS.org/Vol78/>.
- [W24] T. Eiter, M. Fink, H. Tompits, and S. Woltran. Eliminating disjunction from propositional logic programs under stable model preservation. In M. de Vos and A. Proveti, editors, *Proceedings ASP03 - Answer Set Programming: Advances in Theory and Implementation, Messina, Italy, September 2003*, number 78 in CEUR Workshop Proceedings, pages 151–165, 2003. Online <http://CEUR-WS.org/Vol78/>.
- [W25] Thomas Eiter, E. Erdem, and W. Faber. Plan Reversals for Recovery in Execution Monitoring. In J. P. Delgrande and T. Schaub, editors, *Proceedings 10th International Workshop on Nonmonotonic Reasoning (NMR-2004), Action and Causality Track*, pages 147–154, June 2004. ISBN 92-990021-0-X.
- [W26] Thomas Eiter, T. Lukasiewicz, R. Schindlauer, and H. Tompits. Well-founded semantics for description logic programs in the Semantic Web. In G. Antoniou and H. Boley, editors, *Proceedings RuleML 2004 Workshop, ISWC Conference, Hiroshima, Japan, November 2004*, number 3323 in LNCS, pages 81–97. Springer, 2004.
- [W27] T. Eiter, M. Fink, H. Tompits, P. Traxler, and S. Woltran. Replacements in non-ground answer-set programming. In M. Fink, H. Tompits, and S. Woltran, editors, *Proceedings 20th Workshop on Logic Programming and Constraint Systems (WLP '06)*, pages 145–153. TU Wien, Inst. f. Informationssysteme, TR 1843-06-02, 2006.
- [W28] Thomas Eiter, G. Ianni, R. Schindlauer, and H. Tompits. dlhex: A system for integrating multiple semantics in an answer-set programming framework. In M. Fink, H. Tompits, and S. Woltran, editors, *Proceedings 20th Workshop on Logic Programming and Constraint Systems (WLP '06)*, pages 206–210. TU Wien, Inst. f. Informationssysteme, TR 1843-06-02, 2006.
- [W29] M. Magdalena Ortiz de la Fuente, D. Calvanese, and T. Eiter. Data Complexity of Answering Unions of Conjunctive Queries in SHIQ. In B. Parsi, U. Sattler, and D. Toman, editors, *Proceedings of the 2006 International Workshop on Description Logics (DL2006), The Lake District of the UK, May 30-June 1, 2006*, number 189 in CEUR Workshop Proceedings, pages 62–73, 2006. Online <http://CEUR-WS.org/Vol-189>.
- [W30] Thomas Eiter, E. Erdem, M. Fink, and J. Senko. Comparing action descriptions based on semantic preferences. In U. Junker and W. Kießling, editors, *Informal Proceedings Multidisciplinary Workshop on Advances in Preference Handling, ECAI 2006, Riva del Garda, August 29, 2006*, pages 15–22. Università di Trento, 2006. Preliminary version of [94].
- [W31] Thomas Eiter, E. Erdem, M. Fink, and J. Senko. Resolving conflicts in action descriptions. In J. Dix and A. Hunter, editors, *Proceedings 11th International Workshop on Nonmonotonic Reasoning (NMR-2006), Reasoning About Actions and Change Track*, pages 353–360, May 2006. Available as TR IfI-06-04, Institut für Informatik, TU Clausthal, Germany, ISSN 1860-8477. Preliminary version of [95].
- [W32] Thomas Eiter, G. Ianni, R. Schindlauer, and H. Tompits. dlhex: A tool for semantic-web reasoning under the answer-set semantics. In A. Polleres, S. Decker, G. Gupta, and J. de Bruijn, editors, *Informal Proceedings Workshop on Applications of Logic Programming in the Semantic Web and Semantic Web Services (ALPSWS 2006), at FLOC/ICLP 2006*, number 196 in CEUR Workshop Proceedings, pages 33–39, 2006. Online <http://CEUR-WS.org/Vol-196/>.
- [W33] Thomas Eiter, G. Ianni, R. Schindlauer, and H. Tompits. Integration of multiple semantics in an answer set framework. In *Proceedings AI\*IA Workshop on Experimental Analysis and Benchmarks of Algorithms for Artificial Intelligence (RCRA'06), Udine, June 23, 2006, 2006*.
- [W34] Thomas Eiter, G. Ianni, R. Schindlauer, and H. Tompits. A RuleML syntax for answer-set programming. In A. Polleres, S. Decker, G. Gupta, and J. de Bruijn, editors, *Informal Proceedings Workshop on Applications of Logic Programming*

- in the *Semantic Web and Semantic Web Services (ALPSWS 2006)*, at *FLOC/ICLP 2006. Poster*, number 196 in CEUR Workshop Proceedings, pages 107–108, 2006. Online <http://CEUR-WS.org/Vol-196/>.
- [W35] Thomas Eiter, G. Ianni, R. Schindlauer, and H. Tompits. Towards efficient evaluation of HEX programs. In J. Dix and A. Hunter, editors, *Proceedings 11th International Workshop on Nonmonotonic Reasoning (NMR-2006), Reasoning About Actions and Change Track*, pages 40–46, May 2006. Available as TR IfI-06-04, Institut für Informatik, TU Clausthal, Germany. ISSN 1860-8477.
- [W36] Thomas Eiter, G. Ianni, R. Schindlauer, H. Tompits, and K. Wang. Forgetting in managing rules and ontologies. In A. Polleres, S. Decker, G. Gupta, and J. de Bruijn, editors, *Informal Proceedings Workshop on Applications of Logic Programming in the Semantic Web and Semantic Web Services (ALPSWS 2006)*, at *FLOC/ICLP 2006*, number 196 in CEUR Workshop Proceedings, pages 1–16, 2006. Online <http://CEUR-WS.org/Vol-196/>.
- [W37] Thomas Eiter and K. Wang. Forgetting and conflict resolving in disjunctive logic programming. In J. Dix and A. Hunter, editors, *Proceedings 11th International Workshop on Nonmonotonic Reasoning (NMR-2006), Reasoning About Actions and Change Track*, pages 85–92, May 2006. Available as TR IfI-06-04, Institut für Informatik, TU Clausthal, Germany. ISSN 1860-8477. Preliminary version to [101].
- [W38] Thomas Eiter, G. Ianni, T. Krennwallner, and R. Schindlauer. Exploiting conjunctive queries in description logic programs. In D. C. et al., editor, *Proceedings of the 2007 International Workshop on Description Logics (DL2007), Bresanone, 2007*, number 250 in CEUR Workshop Proceedings, pages 259–266, 2007. "Online <http://CEUR-WS.org/Vol-250>".
- [W39] Magdalena Ortiz, M. Šimkus, and T. Eiter. Conjunctive query answering in SH using knots. In F. Baader, C. Lutz, and B. Motik, editors, *Proceedings of the 21st International Workshop on Description Logics (DL2008), May 13-16, Dresden, Germany*, volume 353 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2008.
- [W40] Thomas Eiter, M. Fink, P. Schüller, and A. Weinzierl. Towards diagnosing inconsistency in nonmonotonic multi-context systems. In J. P. Delgrande and A. Mileo, editors, *Informal Proc. First International Workshop on Logic-Based Interpretation of Context: Modelling and Applications (Log-IC 2009), Potsdam, September 14, 2009*, 2009. Short paper.
- [W41] Thomas Eiter, C. Lutz, M. Ortiz, and M. Šimkus. Query answering in description logics: the knots approach. In H. Ono, M. Kanazawa, and R. de Queiroz, editors, *Proceedings 16th Workshop on Logic, Language, Information and Computation (WoLLIC 2009)*, number 5514 in LNCS, pages 26–36. Springer, 2009.
- [W42] Guohui Xiao, S. Heymans, and T. Eiter. Drew: A reasoner for Datalog-rewritable description logics and DL-programs. In T. Eiter, A. El Ghali, S. Fernández, S. Heymans, T. Krennwallner, and F. Lévy, editors, *Informal Proceedings of the 1st International Workshop on Business Models, Business Rules and Ontologies (BuRO 2010), September 21, 2010*, 2010.
- [W43] Meghyn Bienvenu, T. Eiter, C. Lutz, M. Ortiz, and M. Šimkus. Query answering in the description logic  $\mathcal{S}$ . In G. Weddell, V. Haarslev, and D. Toman, editors, *Proceedings of the 23rd International Workshop on Description Logics (DL2010), May 4-7, Waterloo, Canada*, CEUR Workshop Proceedings. CEUR-WS.org, 2010.
- [W44] Seif El-Din Bairakdar, M. Dao-Tran, T. Eiter, M. Fink, and T. Krennwallner. Decomposition of distributed nonmonotonic multi-context systems. In M. Denecker and M. de Vos, editors, *Proceedings 15th International Workshop on Nonmonotonic Reasoning (NMR-2010), Declarative Programming Paradigms and Systems*, May 2010. <http://ftp.informatik.rwth-aachen.de/Publications/CEUR-WS/>.
- [W45] Christoph Redl, T. Eiter, and T. Krennwallner. Declarative merging of and reasoning about decision diagrams. In A. Dal Palù, A. Dovier, and A. Formisano, editors, *Proc. Workshop on Constraint Based Methods for Bioinformatics (WCB11), September 12th, 2011 Perugia*, pages 3–16, 2011.
- [W46] Minh Dao-Tran, T. Eiter, M. Fink, and T. Krennwallner. First-order encodings for modular nonmonotonic datalog programs. In O. de Moor et al., editor, *Proc. Workshop on Datalog 2.0, Magdalen College, Oxford, March 2010*, number 6702 in LNCS, pages 59–77. Springer Verlag, 2011.
- [W47] Minh Dao-Tran, T. Eiter, M. Fink, and T. Krennwallner. Model streaming for distributed multi-context systems. In A. Mileo and M. Fink, editors, *Proceedings Second International Workshop on Logic-Based Interpretation of Context: Modeling and Applications (LOG-IC 2011)*. CEUR Workshop Proceedings [CEUR-WS.org], 2011. online CEUR-WS.org/Vol-738/.
- [W48] Harald Beck, T. Eiter, and T. Krennwallner. Inconsistency management for traffic regulations. In B. Srivastava, F. Lecue, and A. Joshi, editors, *Papers from the AAAI 2012 Workshop on Semantic Cities, July 23, 2012, Toronto*, number WS-12-13 in Technical Report. AAAI Press, 2012. 7 pp. ISBN 978-1-57735-578-6.

- [W49] Thomas Eiter, M. Fink, T. Krennwallner, C. Redl, and P. Schüller. Eliminating unfounded set checking for HEX-programs. In Y. Lierler and M. Fink, editors, *Informal Proceedings 5th Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP 2012)*, pages 83–97, 2012. <https://sites.google.com/site/aspocp12/proceedings>.
- [W50] Thomas Eiter, M. Ortiz, M. Šimkus, K. Trung-Tran, and G. Xiao. Towards practical query answering for Horn-*SHIQ*. In Y. Kazakov, D. Lembo, and F. Wolter, editors, *Proceedings of the 25th International Workshop on Description Logics (DL2012), June -9, Rome, Italy*, volume 846 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2012. 11 pp. <http://ceur-ws.org/Vol-846>.
- [W51] Loris Bozzato, T. Eiter, and L. Serafini. Defeasibility in contextual reasoning with CKR. In *Working Notes of the 5th International Workshop on Acquisition, Representation and Reasoning with Contextualized Knowledge (ARCOE-LogIC 2013), September 15, 2013 La Corunna, Spain*, 2013.
- [W52] Thomas Eiter, M. Fink, T. Krennwallner, and C. Redl. Grounding HEX-programs with expanding domains. In D. Pearce, S. Tasharofi, E. Ternovska, and C. Vidal, editors, *Informal Proceedings of the 2nd Workshop on Grounding and Transformations for Theories with Variables (GTTV'13)*, pages 3–15, 2013. Online available at <http://gttv13.irlab.org/sites/10.56.35.200.gttv13/files/gttv13.pdf>.
- [W53] Harald Beck, M. Dao-Tran, T. Eiter, and M. Fink. Towards a logic-based framework for analyzing stream reasoning. In I. Celino, O. Corcho, D. Dell’Aglío, E. D. Valle, M. Krötzsch, and S. Schlobach, editors, *Proceedings 3rd International Workshop on Ordering and Reasoning (Ordning 2014), October 19-20, 2014 Riva del Garda, Trentino, Italy*, number 1303 in *CEUR Workshop Proceedings*, pages 11–22. CEUR-WS.org, 2014. Online <http://ceur-ws.org/Vol-1303/>. **Best Paper Award.**
- [W54] Harald Beck, M. Dao-Tran, T. Eiter, and M. Fink. Towards ideal semantics for analyzing stream reasoning. In S. Ellmauthaler and J. Puehrer, editors, *Informal Proceedings International Workshop on Reactive Concepts in Knowledge Representation 2014 (ReactKnow), Prague, Czech Republic, August 2014*, pages 17–22. Institut für Informatik, Universität Leipzig, 2014. Technical Report 1 (2014), ISSN 1430-3701. Online [http://reactknow2014.uni-leipzig.de/procs\\_reactknow2014.pdf](http://reactknow2014.uni-leipzig.de/procs_reactknow2014.pdf).
- [W55] Loris Bozzato, T. Eiter, and L. Serafini. Contextualized knowledge repositories with justifiable exceptions. In M. Bienvenu, M. Ortiz, R. Rosati, and M. Šimkus, editors, *Informal Proceedings of the 27th International Workshop on Description Logics (DL-2014), Vienna, Austria, July 17-20, 2014*, volume 1193 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2014. Complementary paper to CILC 2014/ARCOE-LogIC paper.
- [W56] Thomas Eiter, M. Fink, and D. Stepanova. Towards practical deletion repair of inconsistent dl-programs. In M. Bienvenu, M. Ortiz, R. Rosati, and M. Šimkus, editors, *Informal Proceedings of the 27th International Workshop on Description Logics (DL-2014), Vienna, Austria, July 17-20, 2014*, volume 1193 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2014.
- [W57] Thomas Eiter, P. Schneider, M. Šimkus, and G. Xiao. Using OpenStreetMap data to create benchmarks for description logic reasoners. In S. Bail, B. Glimm, E. Jiménez-Rui, N. Matentzoglou, B. Parsia, and A. Steigmiller, editors, *Informal Proceedings of the 2nd International Workshop on OWL Reasoner Evaluation (ORE-2014), Vienna, Austria, July 14, 2014*, volume 1207 of *CEUR Workshop Proceedings*, pages 51–57. CEUR-WS.org, 2014.
- [W58] Alessandro Francesco De Rosis, T. Eiter, C. Redl, and F. Ricca. Constraint answer set programming based on hex-programs. In D. Inclezan and M. Maratea, editors, *Informal Proceedings 8th Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP 2015)*, 2015. <https://sites.google.com/site/aspocp15/accepted>.
- [W59] Cristina Feier and T. Eiter. Reasoning with forest logic programs using fully enriched automata. In O. Papini et al., editor, *Informal Proc. Joint Ontology Workshops 2015, OntoLP Workshop, co-located with IJCAI 2015, Buenos Aires, Argentina, July 25-27, 2015*, CEUR Workshop Proceedings. CEUR-WS.org, 2015. Online <http://ceur-ws.org/Vol-1517>.
- [W60] Harald Beck, M. Dao-Tran, and T. Eiter. Semantics and complexity of RDF stream processing & reasoning: Expression of Interest. In *Informal Proc. RDF Stream Processing Workshop at ESWC2015, May 31, 2015, Portoroz, Slovenia*, 2015.
- [W61] Harald Beck, M. Dao-Tran, and T. Eiter. Towards comparing rdf stream processing semantics. In D. Nicklas and Ö. L. Özceç, editors, *Informal Proc. 1st Workshop on High-Level Declarative Stream Processing (HiDeSt@KI), colocated with KI-2015, September 21/22, 2015, Dresden, Germany*, number 1447 in *CEUR Workshop Proceedings*, pages 15–27. CEUR-WS.org, 2015. Online <http://ceur-ws.org/Vol-1447/>.

- [W62] Patrik Schneider, T. Eiter, and J. X. Parreira. Towards spatial ontology-mediated query answering over mobility streams. In D. Dell’Aglío, E. Della Valle, T. Eiter, M. Krötzsch, M. Maleshkova, R. Verborgh, F. M. Facca, M. Innovate, M. Mrissa, and C. Bernard, editors, *Joint Proceedings of the 3rd Stream Reasoning (SR 2016) and the 1st Semantic Web Technologies for the Internet of Things (SWIT 2016) workshops, co-located with 15th International Semantic Web Conference (ISWC 2016), Kobe, Japan, October 17-18, 2016*, pages 13–24, 2016. <http://ceur-ws.org/Vol-1783/>.
- [W63] Zeynep Gozen Saribatur and T. Eiter. Reactive policies with planning for action languages. In G. Kern-Isberner and R. Wassermann, editors, *Proceedings 16th International Workshop on Nonmonotonic Reasoning (NMR-2016), April 22-24, Cape Town, South Africa*, pages 143–152. TU Dortmund, Germany, 2016. Technical Reports in Computer Science, Nr. 852. Online [http://nmr2016.cs.uct.ac.za/proceedings\\_nmr2016.pdf](http://nmr2016.cs.uct.ac.za/proceedings_nmr2016.pdf).
- [W64] Zeynep Gozen Saribatur and T. Eiter. Towards abstraction in ASP with an application on reasoning about agent policies. In *Informal Proceedings 11th Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP’18@FLoC)*, 2018. online available at CoRR, <https://arxiv.org/abs/1809.06638>.
- [W65] Loris Bozzato, T. Eiter, and L. Serafini. A datalog translation for reasoning on dl-lite<sub>r</sub> with defeasibility. In M. Šimkus and G. C. Weddell, editors, *Informal Proceedings of the 32nd International Workshop on Description Logics (DL-2019), Oslo, Norway, June 18-21, 2019*, volume 2373 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2019.
- [W66] Thomas Eiter, Z. G. Saribatur, and P. Schüller. Abstraction for zooming-in to unsolvability reasons of grid-cell problems. In *Proceedings of the Workshop on Explainable Artificial Intelligence, August 11, 2019, Macao*, pages 7–13, 2019. Available at <http://arxiv.org/abs/1909.04998>.
- [W67] Danh Le-Phuoc and T. Eiter. An adaptive semantic stream reasoning framework for deep neural networks. In S. Conrad and I. Tiddi, editors, *Proceedings of the CIKM 2020 Workshops, co-located with 29th ACM International Conference on Information and Knowledge Management (CIKM 2020) Galway, Ireland, October 19-23, 2020*, volume 2699 of *CEUR Workshop Proceedings*. CEUR-WS.org, 2020. Workshop on Combining Symbolic and Sub-symbolic Methods and their Applications (CSSA), paper <http://ceur-ws.org/Vol-2699/paper09.pdf>.
- [W68] Yi-Dong Shen and T. Eiter. Constraint monotonicity, epistemic splitting and foundedness are in general too strong in answer set programming. *CoRR*, abs/2010.00191, Oct. 2020. Accepted and presented at the 4th Workshop on Trends and Applications of Answer Set Programming (TAASP 2020). November 23-24, 2020, Klagenfurt, Austria (virtual).
- [W69] Anh Le-Tuan, M. Nguyen-Duc, C.-Q. Le, T.-K. Tran, M. Hauswirth, T. Eiter, and D. Le-Phuoc. CQELS 2.0: towards a unified framework for semantic stream fusion. In E. Della Valle, T. Eiter, D. L. Phuoc, and K. Schekotihin, editors, *5th Stream Reasoning Workshop (SRW 2021), Milan, October 5-6, 2021*, 2021. Informal Proceedings.
- [W70] Thomas Eiter, M. Hecher, and R. Kiesel. aspmc: An algebraic answer set counter. In J. Arias, F. A. D’Asaro, A. Dyoub, G. Gupta, M. Hecher, E. LeBlanc, R. Peñaloza, E. Salazar, A. Saptawijaya, F. Weitkämper, and J. Zangari, editors, *Proceedings of the International Conference on Logic Programming 2021 Workshops co-located with the 37th International Conference on Logic Programming (ICLP 2021), Porto, Portugal (virtual), September 20-21, 2021*, volume 2970 of *CEUR Workshop Proceedings*, 2021. <http://ceur-ws.org/Vol-2970/plppaper1.pdf>. Presented at the 8th Workshop on Probabilistic Logic Programming (PLP 2021), Sept. 20, 2021 and the 14th Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP 2021), Sept. 21, 2021.
- [W71] Thomas Eiter, J. Oetsch, M. Pritz, and N. Ruiz. A confidence-based interface for neuro-symbolic visual question answering. In *First International Workshop on Combining Learning and Reasoning: Programming Languages, Formalisms, and Representations (CLear 2022), conjunction with AAAI-2022, Feb 28, 2022, 2022*. <https://openreview.net/references/pdf?id=M5TaqlnIP>.

## Miscellaneous

- [M1] Thomas Eiter, N. Leone, C. Mateis, G. Pfeifer, and F. Scarcello. Projektbericht: Ein Nichtmonotones Disjunktives Datenbanksystem. *ÖGAI Journal (J. of the Austrian Society for AI)*, 16(2):6–11, 1997. In German. English Title: Project Report: A Nonmonotonic Disjunctive Deductive Database System.
- [M2] Thomas Eiter, M. Fink, R. Schindlauer, and H. Tompits. Answer set programming for intelligent web services. *ÖGAI Journal (J. of the Austrian Society for AI)*, 22(2):17–22, 2003. Project-Report.
- [M3] Jürgen Dix and T. Eiter. Answer Set Programming and Agents. *AgentLink News*, 19:14–17, 2005. ISSN 1465-3842.
- [M4] Guohui Xiao and T. Eiter. Inline evaluation of hybrid knowledge bases. In S. Rudolph and C. Gutierrez, editors, *Proc. 5th International Conference on Web Reasoning and Rule Systems (RR 2011), Aug. 29-30, 2011, Galway, Ireland*, number 6902 in LNCS, pages 300–305. Springer, 2011. PhD project description.

- [M5] Harald Beck, M. Dao-Tran, and T. Eiter. What is the semantics of your SPARQL extension? *ALP Newsletter*, 28(4), 2015. 7 pp.
- [M6] Thomas Eiter. Obituary Helmut Veith (1971-2016). *ACM SIGLOG News*, 3(2):3–5, 2016. English translation by Richard Zach; reprinted in *Bulletin of the EATCS*, 119.
- [M7] Thomas Eiter. Peter Lucas. In Österreichische Akademie der Wissenschaften, editor, *Almanach 166. Jahrgang*, pages 330–333. Verlag der Österreichischen Akademie der Wissenschaften, Vienna, Austria, 2016. (Obituary).
- [M8] Thomas Eiter and R. Zach. Helmut Veith (1971-2016). *Bulletin of the EATCS*, 119, 2016. Also in *ACM SIGLOG News* 3(2):3-5.
- [M9] Thomas Eiter, J. Esparza, C. Palamidessi, G. D. Plotkin, and N. Shankar. Alonzo Church Award 2018 - Call for Nominations. *Bulletin of the EATCS*, 124, 2018.
- [M10] Antonius Weinzierl, B. Bogaerts, J. Bomanson, T. Eiter, G. Friedrich, T. Janhunen, T. Kaminski, M. Langowski, L. Leutgeb, G. Schenner, and R. Taupe. The alpha solver for lazy-grounding answer-set programming. *ALP Newsletter*, 32, 2019. <https://www.cs.nmsu.edu/ALP/2019/04/the-alpha-solver-for-lazy-grounding-answer-set-programming/>.
- [M11] Thomas Eiter and S. Woltran. Denkende Maschinen. *Die Münze*, 30(2):5–8, 2019. Münze Österreich (Austrian Mint), Member magazine.
- [M12] Bernhard Moser, G. Dorffner, T. Eiter, W. Faber, G. Klambauer, R. Legenstein, B. Nessler, A. Polleres, and S. Woltran. Österreichische AI Strategie aus Sicht der Wissenschaft. *OCG Journal*, 45(1-2):14–17, 2020. ISSN 1728-743X.

## Patents

- [P1] European patent no. 98102487.0-2201 on a method for comparison of electric signal groups, 1998. European Patent Office, The Hague.

## Other Publications and Manuscripts (Selection)

- [O1] Thomas Eiter. Knowledge-Based Systems for Metal-Related Technology – A Bibliography. Technical Report CD-TR 90/3, CD-Laboratory for Expert Systems, TU Vienna, Austria, March 1990. 113 pages.
- [O2] Thomas Eiter and G. Gottlob. Identifying the Minimal Transversals of a Hypergraph and Related Problems. Technical Report CD-TR 91/16, Christian Doppler Laboratory for Expert Systems, TU Vienna, Austria, January 1991. Shortened version in *SIAM Journal on Computing*, 24(6):1278–1304, 1995.
- [O3] Thomas Eiter and H. Mannila. Computing Discrete Fréchet Distance. Technical Report CD-TR 94/64, CD-Laboratory for Expert Systems, TU Vienna, Austria, May 1994.
- [O4] Thomas Eiter, K. Makino, and T. Ibaraki. Multi-face Horn functions. Technical Report CD-TR 96/95, Christian Doppler Laboratory for Expert Systems, TU Vienna, Austria, June 1996. 96 pp.
- [O5] Thomas Eiter, G. Gottlob, and H. Veith. Modular Logic Programming and Generalized Quantifiers. Technical Report CD-TR 97/108, Christian Doppler Laboratory for Expert Systems, TU Vienna, January 1997. Preliminary Report.
- [O6] T. Eiter, W. Faber, N. Leone, and G. Pfeifer. The Diagnosis Frontend of the `d1v` System. Technical Report DBAI-TR-98-20, Institut für Informationssysteme, Technische Universität Wien, Austria, November 1998. Shortened version in *The European Journal on Artificial Intelligence (AI Communications)*, 12(1-2):99–111, 1999.
- [O7] Thomas Eiter, M. Fink, G. Sabbatini, and H. Tompits. On Updates of Logic Programs: Semantics and Properties. Technical Report INFSYS RR-1843-00-08, Institut für Informationssysteme, Technische Universität Wien, A-1040 Vienna, Austria, December 2000.
- [O8] Thomas Eiter, M. Fink, G. Sabbatini, and H. Tompits. Declarative Update Policies for Nonmonotonic Knowledge Bases. Technical Report INFSYS RR-1843-02-07, Institut für Informationssysteme, Technische Universität Wien, A-1040 Vienna, Austria, May 2002. Revised version in [5].
- [O9] Thomas Eiter, W. Faber, M. Fink, and D. Kurushin. Review of Techniques and Systems for Acquisition and Transformation of Heterogenous Data. Technical Report INFOMIX D1-3, Institut für Informationssysteme, Technische Universität Wien, A-1040 Vienna, Austria, July 2002.

- [O10] P.A. Bonatti, T. Eiter, and M. Faella. Automated negotiation mechanisms. Technical Report IST506779/Naples/I2-D6/D/CO/a0, University of Naples, April 2006.
- [O11] Thomas Eiter, C. Lutz, M. Ortiz, and M. Šimkus. Complexity of conjunctive query answering in description logics with transitive roles. Technical Report INFSYS RR-1843-08-09, Institut für Informationssysteme, Technische Universität Wien, A-1040 Vienna, Austria, Sept. 2008.
- [O12] Jos de Bruijn, P. Bonnard, H. Citeau, S. Dehors, S. Heymans, J. Pührer, and T. Eiter. Combinations of rules and ontologies: State-of-the-art survey of issues. Technical Report Ontorule D3.1, Ontorule Project Consortium, June 2009. <http://ontorule-project.eu/>.
- [O13] Yisong Wang, J.-H. You, L. Yuan, Y.-D. Shen, and T. Eiter. Embedding description logic programs into default logic. *CoRR*, abs/1111.1486, Nov. 2011. <http://arxiv.org/abs/1111.1486>.
- [O14] Cristina Feier and T. Eiter. Reasoning with forest logic programs using fully enriched automata. Technical Report INFSYS RR-1843-15-02, Institut für Informationssysteme, Technische Universität Wien, A-1040 Vienna, Austria, June 2015.
- [O15] Thomas Eiter, M. Mehuljic, C. Redl, and P. Schüller. User guide: dlhex 2.x. Technical Report INFSYS RR-1843-15-05, Institut für Informationssysteme, Technische Universität Wien, A-1040 Vienna, Austria, Sept. 2015.
- [O16] Zeynep Gozen Saribatur, T. Eiter, and P. Schüller. Abstraction for non-ground answer set programs. Technical Report LOGCOMP RR-1923-19-01, Institut für Informationssysteme, Technische Universität Wien, A-1040 Vienna, Austria, Dec. 2019. Extended version of [208].
- [O17] Alexander Artikis, T. Eiter, A. Margara, and S. Vansummeren. Foundations of composite event recognition. Technical Report Dagstuhl Reports vol. 10, number 2, Leibniz-Zentrum für Informatik, Schloss Dagstuhl, Germany, Apr. 2020.