

# List of Publications

Thomas EITER

Latest Update January 2025

## 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), Salza 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>.
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- [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] Alexander Artikis, T. Eiter, A. Margara, and S. Vansummeren. Foundations of Composite Event Recognition (Dagstuhl Seminar 20071). *Dagstuhl Reports*, 10(2):19–49, 2020.

- [E29] 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”.
- [E30] Luc De Raedt, T. Eiter, M. J. Maher, E. Pontelli, and M. Truszczyński. Editorial. *Theory and Practice of Logic Programming*, 22(6):770–775, Nov. 2022.
- [E31] David S. Warren, V. Dahl, T. Eiter, M. V. Hermenegildo, R. A. Kowalski, and F. Rossi, editors. *Prolog: The Next 50 Years*, number 13900 in Lecture Notes in Artificial Intelligence. Springer, 2023.
- [E32] Luc De Raedt, T. Eiter, M. J. Maher, E. Pontelli, and M. Truszczyński. The collection of papers celebrating the 20th anniversary of TPLP, part II. *Theory and Practice of Logic Programming*, 32(1):1, 2023.

## 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] T. 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] T. 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] T. 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] T. 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] T. 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] T. 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] T. 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] T. 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] T. 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.
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- [BC18] T. 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] T. 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] T. 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  $\mathcal{EL}^\perp$  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] T. Eiter and G. Gottlob. On the Complexity of Propositional Knowledge Base Revision, Updates, and Counterfactuals. *Artificial Intelligence*, 57(2–3):227–270, 1992.
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- [J6] T. 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.
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- [J9] T. 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.
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- [J15] T. 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] T. 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] T. Eiter, G. Gottlob, and N. Leone. Abduction From Logic Programs: Semantics and Complexity. *Theoretical Computer Science*, 189(1-2):129–177, December 1997.
- [J19] T. 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] T. Eiter, G. Gottlob, and N. Leone. Semantics and Complexity for Abduction from Default Theories. *Artificial Intelligence*, 90(1-2):177–222, 1997.
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- [J25] T. 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.
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