

List of Publications and Invited Talks

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Abstract

This document contains a list of 151 publications and a list of 54 invited talks. The publications consist of 13 books and invited articles in books, 37 Journal-Publications, 7 invited Tutorials, 41 papers in refereed conferences, 40 additional papers, 11 supervised papers and 2 papers currently under submission. My DBLP count (<http://www.informatik.uni-trier.de/~ley/db/indices/a-tree/index.html>) is currently at 75. I am mentioned in the list of the most cited authors in computer science (<http://citeseer.nj.nec.com/allcitedn.html>): my current position is 3347.

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1 Books and Invited Articles in Books (13)

Edited Books (7)

1991

- [1] Jürgen Dix, Klaus-Peter Jantke, and Peter H. Schmitt, editors. *Nonmonotonic and Inductive Logic, Proceedings of the first International Workshop, Karlsruhe, Germany, 1990*. Lecture Notes in Artificial Intelligence 543, Springer, October 1991. 243 pages .

1995

- [2] Jürgen Dix, Luis Moniz Pereira, and Teodor Przymusiński, editors. *Non-Monotonic Extensions of Logic Programming: Theory, Implementation and Applications*. Lecture Notes in Artificial Intelligence 927, Springer, April 1995. 230 pages .

1997

- [3] Jürgen Dix, Luis Moniz Pereira, and Teodor Przymusiński, editors. *Non-Monotonic Extensions of Logic Programming: Theory, Applications and Implementations*. Lecture Notes in Artificial Intelligence 1216, Springer, April 1997. 238 pages .
- [4] Jürgen Dix, Ulrich Furbach, and Anil Nerode, editors. *Logic Programming and Nonmonotonic Reasoning, Proceedings of the fourth International Conference, Dagstuhl, Germany, 1997*. Lecture Notes in Artificial Intelligence 1265, Springer, July 1997. 460 pages .

1998

- [5] Jürgen Dix, Luis Moniz Pereira, and Teodor Przymusiński, editors. *Logic Programming and Knowledge Representation*. Lecture Notes in Artificial Intelligence 1471, Springer, August 1998. 255 pages .
- [6] Jürgen Dix, Luis Farinas del Cerro and Ulrich Furbach, editors. *Logics in Artificial Intelligence, European Workshop, JELIA '98, Schloss Dagstuhl, Germany, 1998*. Lecture Notes in Artificial Intelligence 1489, October 1998. 401 pages .

2000

- [7] Chitta Baral, Salem Benferhat, Samir Chopra, Marc Denecker, Jürgen Dix, Tony Kakas, Vladimir Lifschitz, Henri Prade, Alessandro Provetti, Mirek Truszczynski, editors. *Proceedings of the 8th Nonmonotonic Reasoning Workshop, NMR 2000, Breckenridge, Colorado, USA, 2000*. Computing Research Repository CORR. Archived at arXiv.org under cs.AI/0003073.

Own Books and invited articles in Books (6)

1995

- [8] Jürgen Dix. Semantics of Logic Programs: Their Intuitions and Formal Properties. An Overview. In André Fuhrmann and Hans Rott, editors, *Logic, Action and Information – Essays on Logic in Philosophy and Artificial Intelligence*, pages 241–327, DeGruyter, 1995.

1997

- [9] Gerd Brewka, Jürgen Dix, and Kurt Konolige. *Nonmonotonic Reasoning: An Overview*. CSLI publishers, Studies in Logic Language and Information, Lecture Notes No. 73, January 1997. 190 pages .

1999

- [10] Jürgen Dix. Cognitive Systems. In John G. Webster (editor), *Encyclopedia of Electrical and Electronics Engineering*, Vol. 3, pages 531–540, John Wiley & Sons. February 1999.

2000

- [11] V.S. Subrahmanian, Piero Bonatti, Jürgen Dix, Thomas Eiter, Sarit Kraus, Fatma Özcan and Robert Ross. Heterogeneous Active Agents. MIT Press, June 2000. 640 pages . Preliminary version in http://www.cs.man.ac.uk/~jdix/Papers/web_version.ps.gz

2001

- [12] Jürgen Dix, Ulrich Furbach and Ilkka Niemelä. Nonmonotonic Reasoning: Towards Efficient Calculi and Implementations. In A. Voronkov and A. Robinson, editors, *Handbook of Automated Reasoning*, Volume 2, Chapter 18, pages 1121–1234 Elsevier Science, 2001.

2002

- [13] Gerd Brewka and Jürgen Dix. Knowledge Representation with Generalized Logic Programs. In D. Gabbay, editor, *Handbook of Philosophical Logic, 2nd Edition, Volume 6, Chapter 6*, Oxford University Press, to appear 2002. Preliminary version in http://www.cs.man.ac.uk/~jdix/Papers/01_Handbook_PhilLog.ps.gz

2 Journal Publications (37)

Guest-Editor for Journal-Issues (4)

1999

- [14] Jürgen Dix and Jorge Lobo. Logic Programming and Non-monotonic Reasoning. *Special Issue of Annals of Mathematics and Artificial Intelligence*, **Vol. 25, No. 3–4**:161–419, 1999.

2000

- [15] Jürgen Dix, Luis Farinas del Cerro and Ulrich Furbach. Logics in AI. *Special Issue of Annals of Mathematics and Artificial Intelligence*, **Vol. 27, No. 1–4**:1–202, 2000.

2003

- [16] Jürgen Dix, Fariba Sadri and Ken Satoh. Computational Logic and Multi-Agency. *Special Issue of Annals of Mathematics and Artificial Intelligence*, **Vol. 37, No. 1–2**.

2004

- [17] Jürgen Dix, Joao Leite and Ken Satoh. Agent systems based on Computational Logic. *Special Issue of Annals of Mathematics and Artificial Intelligence*, to appear 2004.

Articles in Journals (33)

1992

- [18] Jürgen Dix and David Makinson. The Relationship between KLM and MAK models for Nonmonotonic Inference Operations. *Journal of Logic, Language and Information*, **1(2)**:131–140, 1992.

1993

- [19] Jürgen Dix and Peter Schmitt. Nichtmonotones Schliessen: Wieviel Nicht-monotonie ist nötig? *Kognitionswissenschaft*, **3**:53–69, 1993.
- [20] Jürgen Dix. LP&NMR '93: Report on the Second International Workshop on Logic Programming and Non-Monotonic Reasoning. *The European Journal on Artificial Intelligence*, **6(3/4)**:229–231, 1993. Also in Newsletter of the Association of Logic Programming, **6(4)**:2-3, 1993
- [21] Jürgen Dix and Martin Kummer. Herbrand's Theorem for Nonstandard Inference Operations (Abstract). *Journal of Symbolic Logic*, **58**:1116–1117, 1993.

1994

- [22] Jürgen Dix and Martin Kummer. Herbrand’s Theorem for Nonstandard Inference Operations. *Journal of Logic and Computation*, **4(2)**:143–156, 1994.
- [23] Jürgen Dix. Review on Marek/Truszcynski’s Book “Nonmonotonic Logic”. *Bulletin of the IGPL*, **6(1)**:250–254, 1994.

1995

- [24] Jürgen Dix. A Classification-Theory of Semantics of Normal Logic Programs: I. Strong Properties. *Fundamenta Informaticae*, **XXII(3)**:227–255, 1995.
- [25] Jürgen Dix. A Classification-Theory of Semantics of Normal Logic Programs: II. Weak Properties. *Fundamenta Informaticae*, **XXII(3)**:257–288, 1995.
- [26] Jürgen Dix. Detailed Report on the First LP&NMR Retreat, October 8–11, 1994. *The European Journal on Artificial Intelligence*, **8(1)**:39–43, 1995. Also in *Computational Logic*, **1(2)**:46–48, 1995.

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- [27] Peter Baumgartner, Jürgen Dix, Ulrich Furbach, Dorothea Schäfer, and Frieder Stolzenburg. Deduktion und Logisches Programmieren. *KI*, **2**: 34–39, 1996.
- [28] Jürgen Dix and Ulrich Furbach. The DFG-Project DisLoP on Disjunctive Logic Programming. *Computational Logic*, **2**:89–90, 1996.
- [29] Jürgen Dix and Ulrich Furbach. Logic Programming with Negation and Disjunction. *KI*, **3**: 24–31, Special Issue on Logic Programming, 1996.
- [30] Jürgen Dix and Georg Gottlob and Wiktor Marek. Reducing Disjunctive to Non-Disjunctive Semantics by Shift Operations. *Fundamenta Informaticae*, **XXVIII(1/2)**:87–100, 1996.

1997

- [31] Stefan Brass and Jürgen Dix. Characterizations of the Stable Semantics by Partial Evaluation. *Journal of Logic Programming*, **32(3)**:207–228, 1997.
- [32] Chandrabose Aravindan, Jürgen Dix and Ilkka Niemelä. DisLoP: A Research Project on Disjunctive Logic Programming *The European Journal on Artificial Intelligence*, **10(3/4)**:151–165, 1997. Shortened version also in *Computational Logic*, **3(2)**, 1997.

1998

- [33] Stefan Brass and Jürgen Dix. Characterizations of the Disjunctive Wellfounded Semantics: Confluent Calculi and Iterated GCWA. *Journal of Automated Reasoning*, **20(1)**:143–165, 1998.

- [34] Jürgen Dix and Frieder Stolzenburg. A Framework to incorporate Nonmonotonic Reasoning into Constraint Logic Programming. *Journal of Logic Programming*, Special Issue on *Constraint Logic Programming*, **37(1-3)**:46–76, 1998.
- [35] Jürgen Dix. The Logic Programming Paradigm. *The European Journal on Artificial Intelligence*, **11(3)**:39–43, 1998. Short version in Newsletter of the Association of Logic Programming, **11(3)**:19–21, 1998.
- [36] Peter Baumgartner, Ingo Dahn, Jürgen Dix, Ulrich Furbach, Micha Kühn, Frieder Stolzenburg, Bernd Thomas. Automated Deduction: A Technological Point of View. *KI*, **4**:22–29, Special Issue on Deduction and Applications, 1998.

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- [37] Stefan Brass and Jürgen Dix. A General Framework for Semantics of Disjunctive Logic Programs based on Partial Evaluation. *Journal of Logic Programming*, **38(3)**:167–213, 1999.
- [38] Stefan Brass, Jürgen Dix and Teodor Przymusiński. Computation of the Semantics for Autoepistemic Beliefs. *Artificial Intelligence*, **112(1-2)**:104–123, 1999.
- [39] Jürgen Dix and Mauricio Osorio. Confluent Rewriting Systems in Nonmonotonic Reasoning. *Computacion y Sistemas*, **II(2-3)**:104–123, 1999.

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- [40] Jürgen Dix and Mirco Nanni and V.S. Subrahmanian. Probabilistic Agent Reasoning. *ACM Transactions of Computational Logic*, **1(2)**:207–245, 2000.
- [41] Jürgen Dix and V.S. Subrahmanian and Georg Pick. Meta Agent Programs. *Journal of Logic Programming*, **46(1/2)**:1–60, 2000.

2001

- [42] Stefan Brass, Jürgen Dix, Ilkka Niemelä and Teodor Przymusiński. On the Equivalence of the Static and Disjunctive Well-Founded Semantics and its Computation, *Theoretical Computer Science*, **258(1-2)**:523–553, 2001.
- [43] Stefan Brass, Jürgen Dix, Burkhardt Freitag and Ulrich Zukowski. Transformation-Based Bottom-Up Computation of the Well-Founded Model. *Theory and Practice of Logic Programming*, **1(5)**:497–538, 2001.
- [44] Jürgen Dix, Mauricio Osorio and Claudia Zepeda. A general theory of confluent Rewriting Systems for Logic Programming and its Applications. *Annals of Pure and Applied Logic*, **108(1-3)**:153–188, 2001.
- [45] Jürgen Dix, Sarit Kraus and VS Subrahmanian. Temporal Agent Reasoning *Artificial Intelligence*, **127(1)**:87–135, 2001.
- [46] Jürgen Dix and Karl Schlechta. Updating by minimal sums. *Theoretical Computer Science*, **266(1-2)**:819–838, 2001.

2002

- [47] Carlos Chesñevar, Jürgen Dix, Guillermo Simari and Frieder Stolzenburg. Relating Defeasible and Normal Logic Programming through Transformation Properties. *Theoretical Computer Science*, **290(1)**:499–529, 2002.

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- [48] Jürgen Dix and Hector Munoz-Avila and Dana Nau and LingLing Zhang. IMPACTing SHOP: Planning in a Multi-Agent Environment. *Annals of Mathematics and AI*, 2003. 33 pages . Preliminary version in http://www.cs.man.ac.uk/~jdix/Papers/02_AMAI.ps.gz
- [49] Stefan Brass and Jürgen Dix and Teodor Przymusiński. Super Logic Programs. *ACM Transactions of Computational Logic*, 2003. 43 pages .
- [50] Jürgen Dix and Dana Nau and Ugur Kuter. HTN Planning in Answer Set Programming. *Theory and Practice of Logic Programming*, 2003. 36 pages .

3 Invited Tutorials (7)

- [51] Gerd Brewka, Jürgen Dix, and Kurt Konolige. A Tutorial on Nonmonotonic Reasoning. In G. Brewka, K. P. Jantke, and P. H. Schmitt, editors, *Nonmonotonic and Inductive Logic, Proceedings of the Second International Workshop, Reinhardtsbrunn Castle, Germany, December 1991*, pages 1–88. LNCS 659, Springer, February 1993.
- [52] Gerd Brewka and Jürgen Dix. A Tutorial on Knowledge Representation with Logic Programs. In Working Notes of the *12th European Conference on Artificial Intelligence '96*, Budapest 1996. 95 pages .
- [53] Gerd Brewka and Jürgen Dix. Generalized Logic Programs and their use in Knowledge Representation: An introductory course. In Working Notes of the *9th annual European Summer School in Logic, Language and Information*, Aix-en-Provence 1997.
- [54] Jürgen Dix. IMPACT: A flexible framework for Multi-Agents. In Working Notes of the *National Argentine Conference on Computer Science*, Usuahia, October 2000. Slides (342) available at <http://www.cs.man.ac.uk/~jdix/usuahia.html>.
- [55] Jürgen Dix. Multi-Agency: An Introduction . In Working Notes of the *Tutorial on Multi-Agency*, Bahia Blanca, September 2000. Slides (150) available at <http://www.cs.man.ac.uk/~jdix/bahia.html>.
- [56] Jürgen Dix and Thomas Eiter. Theoretical foundations and practical applications of Heterogenous agent systems In Working Notes of the *14th annual European Summer School in Logic, Language and Information*, Trento, Italy, 2002. Slides (350) available at <http://www.cs.man.ac.uk/~jdix/ESSLI02.html>.
- [57] Jürgen Dix. Logic based agents. In Working Notes of the *Biannual Journées Europeennes de la Logique en Intelligence artificielle (JELIA '02)*., Cosenza, Italy, 2002. Slides (88) available at http://www.cs.man.ac.uk/~jdix/Papers/Talk_02_JELIA02_tutorial.ppt.

4 Refereed Conference Papers (41)

1989

- [58] Jürgen Dix. Some Tendencies in Non Monotonic Reasoning: I. The Main Approaches. In Bernd I. Dahn and Helmut Wolter, editors, *Proceedings of the 7th Easter Conference on Model-Theory*, pages 81–105, 1086 Berlin, PSF 1297, DDR, Sektion Mathematik der Humboldt Universität, April 1989.

1990

- [59] Jürgen Dix, Achim Posegga, and Peter H. Schmitt. Modal Logics for AI Planning. In *Proceedings of the First International Conference on Expert Planning Systems, Brighton*, pages 157–162. Conf. Publ. No. 322, June 1990.

1991

- [60] Jürgen Dix. Classifying Semantics of Logic Programs. In Anil Nerode, Wiktor Marek, and V. S. Subrahmanian, editors, *Logic Programming and Non-Monotonic Reasoning, Proceedings of the first International Workshop*, pages 166–180. Washington D.C, MIT Press, July 1991.
- [61] Jürgen Dix. Normal Logic Programs and Cumulativity. 9th International Congress of Logic, Methodology and Philosophy of Science, Uppsala, Sweden, August 1991.
- [62] Jürgen Dix. Cumulativity and Rationality in Semantics of Normal Logic Programs. In J. Dix, K. P. Jantke, and P. H. Schmitt, editors, *Proceedings of the first Workshop on Nonmonotonic and Inductive Logic 1990 in Karlsruhe*, pages 13–37. LNCS 543, Springer, October 1991.

1992

- [63] Jürgen Dix. Default Theories of Poole-Type and a Method for Constructing Cumulative Versions of Default Logic. In Bernd Neumann, editor, *Proceedings ECAI*, pages 289–293. John Wiley & Sons, August 1992.
- [64] Jürgen Dix and Martin Kummer. Herbrand’s Theorem for Nonstandard Inference Operations. Logic Colloquium 1992, Veszprem, Hungaria, August 1992. Abstract appeared also in *Journal of Symbolic Logic*, **58**, 1116–1117, 1993.
- [65] Jürgen Dix. A Framework for Representing and Characterizing Semantics of Logic Programs. In B. Nebel, C. Rich, and W. Swartout, editors, *Principles of Knowledge Representation and Reasoning: Proceedings of the Third International Conference (KR ’92)*, pages 591–602. San Mateo, CA, Morgan Kaufmann, October 1992.
- [66] Jürgen Dix. Classifying Semantics of Disjunctive Logic Programs. In K. Apt, editor, *LOGIC PROGRAMMING: Proceedings of the 1992 Joint International Conference and Symposium*, pages 798–812. MIT Press, November 1992.

- [67] Jürgen Dix and Martin Müller. Abstract Properties and Computational Complexity of Semantics for Disjunctive Logic Programs. In *Proc. of the Workshop W1, Structural Complexity and Recursion-theoretic Methods in Logic Programming, following the JICSLP '92*, pages 15–28. H. Blair and W. Marek and A. Nerode and J. Remmel, November 1992.

1993

- [68] Jürgen Dix and Martin Müller. Implementing Semantics for Disjunctive Logic Programs Using Fringes and Abstract Properties. In Luis Moniz Pereira and Anil Nerode, editors, *Logic Programming and Non-Monotonic Reasoning, Proceedings of the Second International Workshop*, pages 43–59. Lisbon, MIT Press, July 1993.

1994

- [69] Jürgen Dix and Martin Müller. An Axiomatic Framework for Representing and Characterizing Semantics of Disjunctive Logic Programs. In Pascal Van Hentenryck, editor, *Proceedings of the 11th Int. Conf. on Logic Programming, S. Margherita Ligure*, pages 303–322, MIT, June 1994.
- [70] Jürgen Dix, Georg Gottlob, and Viktor Marek. Causal Models for Disjunctive Logic Programs. In Pascal Van Hentenryck, editor, *Proceedings of the 11th Int. Conf. on Logic Programming, S. Margherita Ligure*, pages 290–302, MIT, June 1994.
- [71] Jürgen Dix and Martin Müller. Extensions and Improvements of the Stable Semantics. In Z.W. Ras and M. Zemankova, editors, *Proceedings of the 8th Int. Symp. on Methodologies for Intelligent Systems, Charlotte, NC, 1994*. Springer, Lecture Notes in Artificial Intelligence 869, pages 511–520, August 1994.
- [72] Stefan Brass and Jürgen Dix. A Disjunctive Semantics based on Bottom-Up Evaluation and Unfolding. In Bernd Wolfinger, editor, *Innovationen bei Rechen- und Kommunikationssystemen, (IFIP-Congress, Workshop FG2: Disjunctive Logic Programming and Disjunctive Databases)*, pages 83–91. Springer-Verlag, August 1994.
- [73] Jürgen Dix and Martin Müller. The Stable Semantics and its Variants: A Comparison of Recent Approaches. In L. Dreschler-Fischer and B. Nebel, editors, *Proceedings of the 18th German Annual Conference on Artificial Intelligence (KI '94), Saarbrücken, Germany*. Springer, Lecture Notes in Artificial Intelligence 861, pages 82–93, September 1994.
- [74] Stefan Brass and Jürgen Dix. Computing Disjunctive Stable Semantics based on Clark’s Completed Database. In *Proc. of the 6th GI-Workshop “Grundlagen von Datenbanken”, Bad Helmstedt*, pages 30–34, September 1994.
- [75] Stefan Brass and Jürgen Dix. A Characterization of the Stable Semantics by Partial Evaluation. In *Proc. of the 10th Workshop on Logic Programming, Zuerich*, October 1994.

1995

- [76] Stefan Brass and Jürgen Dix. A General Approach to Bottom-Up Computation of Disjunctive Semantics. In J. Dix, L. Pereira, and T. Przymusiński, editors, *Nonmonotonic Extensions of Logic Programming*, pages 127–156. Springer LNCS 927, April 1995.
- [77] Stefan Brass and Jürgen Dix. Characterizations of the Stable Semantics by Partial Evaluation. In A. Nerode, W. Marek, and M. Truszczyński, editors, *Logic Programming and Non-Monotonic Reasoning, Proceedings of the Third International Conference*, pages 85–98. Springer LNCS 928, June 1995.
- [78] Stefan Brass and Jürgen Dix. Disjunctive Semantics based upon Partial and Bottom-Up Evaluation. In Leon Sterling, editor, *Proceedings of the 12th Int. Conf. on Logic Programming, Tokyo*, pages 199–213, MIT, June 1995.
- [79] Jürgen Dix. Characterizing Semantics by Partial Evaluation. 10 th International Congress of Logic, Methodology and Philosophy of Science, Florence, Italy, August 1995.

1996

- [80] Chandrabose Aravindan, Peter Baumgartner, Jürgen Dix, Ulrich Furbach, Gerd Neugebauer, Ilkka Niemelä, Dorothea Schäfer, and Frieder Stolzenburg. On merging theorem proving and logic programming paradigms. In M. Maher, editor, *Proceedings of the Joint International Conference and Symposium on Logic Programming*, page 546, Bonn, Germany, MIT Press, September 1996.
- [81] Chandrabose Aravindan, Peter Baumgartner, Jürgen Dix, Ulrich Furbach, Gerd Neugebauer, Ilkka Niemelä, Dorothea Schäfer, and Frieder Stolzenburg. On merging theorem proving and logic programming paradigms. In N. Fuchs and U. Geske, editors, *Proceedings of the Poster Session at the Joint International Conference and Symposium on Logic Programming*, GMD-Studien Nr. 296, pages 99–122, 1996.
- [82] Stefan Brass and Jürgen Dix. Characterizing D-WFS: Confluence and Iterated GCWA. In Eva Orłowska and L. M. Pereira, editors, *Proceedings of JELIA '96, Evora, Portugal*, pages 268–283. Springer LNCS 1126, September 1996.
- [83] Stefan Brass, Jürgen Dix, and Teodor C. Przymusiński. Super Logic Programs. In L.C.Aiello, J. Doyle and St. Shapiro, editors, *Principles of Knowledge Representation and Reasoning: Proceedings of the Fifth International Conference (KR '96)*, pages 529–541. San Mateo, CA, Morgan Kaufmann, November 1996.

1997

- [84] Jürgen Dix and Frieder Stolzenburg. Computation of Non-Ground Disjunctive Semantics with Constraints. In J. Dix, L. Pereira, and T. Przymusiński, editors, *Nonmonotonic Extensions of Logic Programming*, Springer-Verlag, LNAI 1216, pages 208–235. April 1997.

- [85] Jürgen Dix and Luis Pereira and Teodor Przymusiński. Prolegomena to Logic Programming for Non-Monotonic Reasoning. In J. Dix, L. Pereira, and T. Przymusiński, editors, *Nonmonotonic Extensions of Logic Programming*, Springer-Verlag, LNAI 1216, pages 1–36. April 1997.
- [86] Stefan Brass, Jürgen Dix, Ilkka Niemelä and Teodor C. Przymusiński. Comparison and Efficient Computation of the Static and the Disjunctive WFS Proceedings of the third Dutch-German Workshop on Nonmonotonic Reasoning, Max Planck Institute for Computer Science, Saarbrücken, pages 37–42. Februar 1997.
- [87] Chandrabose Aravindan, Jürgen Dix and Ilkka Niemelä. DisLoP: Towards a Disjunctive Logic Programming System. Proceedings of the Fourth International Conference on Logic Programming and Non-Monotonic Reasoning, J. Dix, U. Furbach and A. Nerode (eds.), LNAI 1265, pages 342–353, Springer, Berlin. June 1997.
- [88] Jürgen Dix and Mauricio Osorio. On Well-behaved Semantics Suitable for Aggregation. In Jan Maluszynski, editor, *Logic Programming: Proceedings of the 1997 International Symposium*, page 405. MIT Press, 1997.
- [89] Jürgen Dix and Mauricio Osorio. Provability Closures in Logic Programming. In Instituto Politecnico Nacional, editor, *Proceedings of the International Symposium on Computer Science in Mexico*, pages 313–319, 1997.

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- [90] Stefan Brass, Jürgen Dix, Ilkka Niemelä and Teodor C. Przymusiński. A Comparison of the Static and the Disjunctive Well-founded Semantics and its Implementation. In A. G. Cohn, L. K. Schubert and S. C. Shapiro, editors, *Principles of Knowledge Representation and Reasoning: Proceedings of the Sixth International Conference (KR '98)*, pages 74–85. San Mateo, CA, Morgan Kaufmann, May 1998.

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- [91] Jürgen Dix and Frieder Stolzenburg and Guillermo Simari and Pablo Fillotrani. Automating Defeasible Reasoning with Logic Programming. In S. Jähnichen, I. Loiseau, editors, Proceedings of the second Kickoff Workshop on Information Technology, Königswinter, pages 39–46. March 1999.
- [92] Jürgen Dix and Karl Schlechta. Updating by minimal sums. *Conference on Formal Software Theory and Theoretical Computer Science*, Chennai, India. Lecture Notes in Computer Science, LNCS 1738, pages 142–154 Springer, 1999.

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- [93] Carlos Chesñevar, Jürgen Dix, Guillermo Simari and Frieder Stolzenburg. Relating Defeasible and Normal Logic Programming through Transformation Properties. *Proceedings of the Argentinean Conference on Computer Science (CACIC 2000)*, October 2000.

- [94] Jürgen Dix and Hector Munoz-Avila and Dana Nau and LingLing Zhang. IMPACTing SHOP: Planning in a Multi-Agent Environment. In F. Sadri, K. Satoh (eds.) *Proceedings of the second Workshop on Computational Logic and Multi-Agents* (CLIMA 2000), July 2000.

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- [95] Jürgen Dix. A Computational Logic Approach to Heterogenous Agent Systems. Proceedings of the Sixth International Conference on Logic Programming and Non-Monotonic Reasoning, Th. Eiter and M. Truszczynski and W. Faber (eds.), LNAI 1265, pages 1–21, Springer, Berlin. September 2001.

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- [96] Jürgen Dix and Sarit Kraus and VS Subrahmanian. Agents dealing with Time and Uncertainty. C. Castelfranchi and W. L. Johnson (Eds.), Proceedings of the First International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS '02), New York: ACM Press, July 2002.
- [97] Jürgen Dix and Hector Munoz-Avila and Dana Nau and LingLing Zhang. Planning in a Multi-Agent Environment: Theory and Practice. In C. Castelfranchi and W. L. Johnson (Eds.), Proceedings of the First International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS '02), New York: ACM Press, July 2002.
- [98] Jürgen Dix and Hector Munoz-Avila and Dana Nau and LingLing Zhang. Theoretical and Empirical Aspects of a Planner in a Multi-Agent Environment. In Giovambattista Ianni and Sergio Flesca (Eds.), Proceedings of Journées Européennes de la Logique en Intelligence artificielle (JELIA '02), Cosenza, Italy. Springer LNCS 2424, September 2002.

5 Additional Scientific Papers (40)

- [99] Jürgen Dix. Model Theory of (Ultra-) Metric Spaces. Technical report, Master Thesis, Heidelberg University (in german), 1986.
- [100] Jürgen Dix. Logik und Spezifikation. Technical report, Institut für Mikrorechner und Automation, University of Karlsruhe, Computer Science Department, POBox 6980, 7500 Karlsruhe, Februar 1988.
- [101] Jürgen Dix, Peter Schmitt, and Reiner Hähnle. Über die Negation im logischen Programmieren und ihre Beziehung zu nichtmonotonen Logiken: Teil 1. Interner Bericht 13/90, Inst. für Logik, Komplexität und Deduktionssysteme, April 1990.
- [102] Jürgen Dix, Peter Schmitt, and Reiner Hähnle. Über die Negation im logischen Programmieren und ihre Beziehung zu nichtmonotonen Logiken: Teil 2. Interner Bericht 14/90, Inst. für Logik, Komplexität und Deduktionssysteme, April 1990.

- [103] Jürgen Dix. Some Tendencies in Non Monotonic Reasoning: I. The Main Approaches. Technical Report 15/90, Institut für Logik und Komplexität, University of Karlsruhe, PoBox 6980, 7500 Karlsruhe, November 1990.
- [104] Jürgen Dix. On Cumulativity in Default Logic and its Relation to Poole's Approach. Technical report, Institute for Logic and Complexity, University of Karlsruhe, Computer Science Department, POBox 6980, 7500 Karlsruhe, October 1991.
- [105] Jürgen Dix and David Makinson. A Note on the Relationship between KLM and MAK models for Nonmonotonic Inference Operations. Technical Report 16/91, Institute for Logic and Complexity, University of Karlsruhe, November 1991.
- [106] Jürgen Dix. *Nichtmonotones Schliessen und dessen Anwendung auf Semantiken logischer Programme*. PhD thesis, University of Karlsruhe, October 1992.
- [107] Jürgen Dix. *Disjunctive Deductive Databases: Theoretical Foundations and Operational Semantics*. Habilitation thesis, Technical University of Vienna, Institute for Information Systems, October 1995.
- [108] Jürgen Dix. *Nichtmonotones Schliessen, Vorlesungsskriptum*. Universität Koblenz-Landau, Institut für Informatik. July 1995. 120 pages .
- [109] Jürgen Dix. *Deduktive Datenbanken, Vorlesungsskriptum*. Universität Koblenz-Landau, Institut für Informatik. May 1996. 140 pages .
- [110] Jürgen Dix. *Künstliche Intelligenz, Vorlesungsskriptum*. Universität Koblenz-Landau, Institut für Informatik. März 1997. 165 pages .
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- [132] Jürgen Dix and Steffen Hölldobler. Inference Mechanisms in Knowledge-Based Systems: Theory and Applications. Technical Report TR 19/98, University of Koblenz, Department of Computer Science, Rheinau 1, September 1998.
- [133] Jürgen Dix and Karl Schlechta. Explaining Updates by minimal Sums. Technical Report CS-TR-4051, Dept. of CS, University of Maryland, College Park, MD 20752, September 1999.
- [134] Jürgen Dix and Hector Munoz-Avila and Dana Nau. IMPACTing Shop: Foundations for Integrating HTN Planning and Multi Agency. Technical Report CS-TR-4100, Dept. of CS, University of Maryland, College Park, MD 20752, January 2000.
- [135] Jürgen Dix and Fatma Özcan and V.S. Subrahmanian. Improving Performance of Heterogenous Agents. Technical Report CS-TR-4202, Dept. of CS, University of Maryland, College Park, MD 20752, November 2000.
- [136] Jürgen Dix and Hector Munoz-Avila and Dana Nau and Lingling Zhang. Planning in a multi agent environment: Theory and Practice. Technical Report CS-TR-4331 (UMIACS-TR-2002-13), Dept. of CS, University of Maryland, College Park, MD 20752, January 2002.
- [137] Jürgen Dix and Dana Nau and Ugur Kuter. HTN planning in Answer Set Programming. Technical Report CS-TR-4332 (UMIACS-TR-2002-14), Dept. of CS, University of Maryland, College Park, MD 20752, February 2002.
- [138] Jürgen Dix and Sarit Kraus and VS Subrahmanian. Agents dealing with time and uncertainty. Technical Report CS-TR-4336 (UMIACS-TR-2002-17), Dept. of CS, University of Maryland, College Park, MD 20752, February 2002.

6 Supervised Papers (11)

- [139] Jürgen Dix, Axel Dold, Thomas Fuchß, and Martin Müller. Theorist und MVL: Erfahrungen und Hinweise im Umgang mit nichtmonotonen Beweissystemen. Technical report, Universität Karlsruhe, Fakultät für Informatik, Institut für Logik, Komplexität und Deduktionssysteme, July 1990.
- [140] Martin Vorbeck. CNF-Prolog: A Meta-Interpreter for Chan's Constructive Negation, Theory. Technical report, Master Thesis, Karlsruhe University (in german), June 1991.
- [141] Bertram Ludäscher. CNF-Prolog: A Meta-Interpreter for Chan's Constructive Negation, Implementation. Technical report, Master Thesis, Karlsruhe University (in german), June 1991.

- [142] Jürgen Dix, Stefan Merkle, Ulf Troppens, and Stefan Waelde. KLM's Abschlüsse K^{cum} und K^{pref} versus LM's Abschluss K^{rat} : Theorie und Implementierung. Technical report, Universität Karlsruhe, Fakultät für Informatik, Institut für Logik, Komplexität und Deduktionssysteme, September 1991.
- [143] Axel Dold. Ginsberg's Bilattices and Nonmonotonic Consequence Operations. Technical report, Master Thesis, Karlsruhe University (in german), 1992.
- [144] Katrin Erk. Defeasible Reasoning with Graphs. Technical report, Studien-Arbeit, Koblenz University (in german), 1996.
- [145] Katrin Erk. Splicing. Technical report, Master Thesis, Koblenz University (in german), 1998.
- [146] Thomas Fuchß. Bilattices and their Application to Semantics of Logic Programs. Technical report, Master Thesis, Karlsruhe University (in german), November 1994.
- [147] Martin Müller. Disjunctive Logic Programs: Characterization and Implementation. Master thesis, Universität Karlsruhe, (in German), January 1993.
- [148] Martin Müller. Examples and Run-Time Data from KORF, January 1993.
- [149] Wenjin Lue. Nonmonotonic Reasoning based on Minimal Models and its Implementation. Dissertation. November 1998.

7 Papers under Submission (2)

- [150] Jürgen Dix and Fatma Özcan and V.S. Subrahmanian. Improving Performance of Heterogenous Agents. 63 pages . Under submission for *Theoretical Computer Science*.
- [151] Jürgen Dix, Sarit Kraus, and VS Subrahmanian. Agents dealing with Time and Uncertainty. Under submission for *Artificial Intelligence*.

8 Invited Talks (54)

I have given more than 100 talks, most of which were presentations of accepted papers at international conferences. In the following, I am only listing the 54 invited talks among them (i.e. no accepted paper presentations at conferences).

1989

1. **“Some Tendencies in Non-Monotonic Reasoning”**,
Mar 31, 1989: Wendisch-Rietz, East-Germany,
7th Easter Conference on Model-Theory,
2. **“Cumulativity of Various Semantics for Logic Programs”**,
Dec 6, 1990: Karlsruhe, Germany,
First Intern. Workshop on Nonmonotonic and Inductive Logic (NIL '90)

1991

3. **“Tutorial on Semantics of Logic Programs”**,
Dec 2, 1991: Reinhardtsbrunn, Germany,
2nd Intern. WS on Nonmonotonic and Inductive Logic (NIL '91),

1992

4. **“Eigenschaften des rationalen Abschlusses, oder:
Wieviel Nichtmonotonie ist nötig”**,
Apr 27, 1992: Bonn (Gustav-Stresemann-Institut), Germany
(zusammen mit Prof. P. Schmitt),
Workshop Standardannahmen in Wissens- und Sprachverarbeitung
5. **“How to Choose between Semantics of Logic Programs”**,
May 12, 1992: Delft (Technical University), Netherlands,
Colloquium on Non-Monotonic Reasoning,
6. **“LP Semantics and their Properties: An Overview”**,
Oct 6, 1992: Konstanz, Germany,
Second International Colloquium on Logic and Information (LogIn '92),
7. **“Weak and Strong Principles of Semantics of Logic Programs”**,
Nov 3, 1992: Stony Brook (State University of New York), USA,
Colloquium in Theoretical Computer Science,

1993

8. **“Results on the Relationship between NMR and LP**,
Feb 15, 1993: Saarbrücken, Germany
German Research Center for Artificial Intelligence,
9. **“Semantics for LP: Their Classification and Characterisation”**,
Mar 30, 1993: Saarbrücken, Germany
Max-Planck-Institute for Computer Science,
10. **“Semantics of Logic Programs and their Properties”**,
May 7, 1993: Koblenz, Germany
Institute for CS at the University,
11. **“Semantics of Logic Programs: Their Classification
and Characterisation”**,
June 9, 1993: München, Germany,
Institute for CS at the Technical University,
12. **“Herbrand’s Theorem and Other Abstract Properties for NMR”**,
June 15, 1993: Leipzig, Germany,
Institute for CS at the University,
13. **“Semantics of Logic Programs and their Properties”**,
July 7, 1993: Mannheim, Germany,
Institute for CS at the University,
14. **“An Axiomatic Approach to Semantics of Logic Programs”**,
Sept 23, 1993: Dagstuhl, Germany,
Workshop on Non-Classical Logics in Computer Science,

1994

15. **“Erweiterungen von WFS und STABLE”**,
May 2, 1994: Hannover, Germany,
Institute for CS at the University,
16. **“On Disjunctive Deductive Databases”**,
Dec 14, 1994: Tübingen, Germany,
Institute for CS at the University,

1995

17. **“Soundness and Completeness Results for bottom up
computation of DLP”**,

May 29, 1995: Bonn, Germany,
Institute for CS at the University,

18. **“A Framework for disjunctive Programs based on Unfolding”**,
July 3, 1995: Athens (GA), USA,
AI Center of the University at Georgia,
19. **“The Role of Partial Deduction for Disjunctive DB’s”**,
July 19, 1995: Dagstuhl, Germany,
Workshop on the Role of Logic in Information Systems,
20. **“A Confluent Calculus for D-WFS”**,
Oct 13, 1995: Vienna, Austria,
Christian Doppler Laboratory,

1996

21. **“Computation of Non-Ground Disjunctive WFS Using Constraint Logic Programming”**,
July 3, 1996: Dagstuhl, Germany,
(joint with F. Stolzenburg),
Dagstuhl Seminar on Disjunctive Logic Programming and Databases,
22. **“Knowledge Representation with Nonmonotonic Semantics”**,
July 11, 1996: Magdeburg, Germany
Faculty of Informatics, University of Magdeburg
23. **“Representating Knowledge by LP-Methods”**,
Nov 19, 1996: München, Germany
Faculty of Informatics, University of the Army
24. **“Herbrand’s Theorem for Nonstandard Consequence Operations”**,
Dec 9, 1996: Warsaw, Polen
Stefan-Banach-Center, Special Mini-Semester to the memory of Helena Rasiowa
25. **“On Logic Programming and Confluent Calculi”**,
Dec 11, 1996: Warsaw, Polen
Stefan-Banach-Center, Special Mini-Semester to the memory of Helena Rasiowa

1997

26. **“Goals and Expectations of Implementing LP-Systems”**,
July 30, 1997: Dagstuhl, Germany

LPNMR' 97, Panel-discussion

27. **“Knowledge Representation with Generalized Logic Programs”**,
Dec 12, 1997: Dresden, Germany
Faculty of Informatics, Technical University of Dresden

1998

28. **“Using Logic and Databases for Information Systems”**,
April 7, 1998: Buenos Aires, Argentine
Kickoff Workshop on Information Systems
29. **“The Future of Deductive Databases”**,
April 17, 1998: Bahia Blanca, Argentine
Dept. of CS, University of Bahia Blanca
30. **“Recent Trends in Logic Programming and Databases”**,
April 26, 1998: Shakertown, Kentucky, USA
Logic Programming Paradigm Meeting, Panel-discussion
31. **“Writing IMPACT Decision Policies”**,
Aug 7, 1998: UMIACS, Maryland, USA
IMPACT Workshop
32. **“Meta Knowledge and Simulation”**,
Aug 7, 1998: UMIACS, Maryland, USA
IMPACT Workshop
33. **“Interesting Applications for LP, NMR and Databases”**,
June 1, 1998: Trento, Italy
International NMR-Workshop, Panel-discussion
34. **“WFS or STABLE? LP or DLP? Where does it go?”**,
Oct 7, 1998: TU Wien, Österreich
Workshop on LP
35. **“Aspects of Data Mining for Software Engineering”**,
Dec 15, 1998: Universität Koblenz, Deutschland
CASE AG

1999

36. **“The IMPACT System of Multi-Agents”**,
Mar 8, 1999: Imperial College, London, GB

Workshop on Agents

37. **“Von Datenbanken zu Wissensbasen”**,
July 9, 1999: Universität Giessen, Deutschland
Fakultät für Informatik
38. **“Logic Based Artificial Intelligence: Theoretical Foundations”**,
July 13, 1999: Universität Bremen, Deutschland
Fakultät für Informatik
39. **“IMPACT Agent Implementation”**,
Aug 12, 1999: Dept. of CS, College Park, USA
IMPACT Workshop on Agents
40. **“IMPACT Agent Extensions”**,
Aug 13, 1999: Dept. of CS, College Park, USA
IMPACT Workshop on Agents
41. **“Theoretical Foundations and Practical Applications
of Logic based AI”**,
Oct 26, 1999: University of Manchester, GB
Dept. of CS

2000

42. **“The Multi-Agent System IMPACT”**,
May 24, 2000: University of Leipzig, Deutschland
Dept. of CS
43. **“IMPACTING Shop: Planning in IMPACT”**,
June 25, 2000: Technical University of Vienna, Österreich
Dept. of CS
44. **“Heterogenous Agent Systems”**,
October 1, 2000: Usuahia, Tierra del Fuego, *Argentina*
National Argentine Conference on Computer Science (CACIC 2000)

2001

45. **“Theoretical Foundations of IMPACT: A Multi Agent System”**,
Feb 16, 2001: Saarbrücken, Germany
Max-Planck-Institute for Computer Science,

46. **“Computational Logic and Heterogenous Agent Systems”**,
September 17, 2001: Vienna, *Austria*
International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2001).
47. **“Formal Methods in Heterogenous Agent Systems”**,
October 25, 2001: Innsbruck, *Austria*
Dept. of Computer Science.
48. **“Agent Systems built on Computational Logic”**,
November 6, 2001: Liverpool, *United Kingdom*
Dept. of Computer Science.

2002

49. **“Scaling Agents”**,
January 24, 2002: Dagstuhl, *Germany*
The Logic of Rational Agency.
50. **“Heterogenous Agent Systems, Planning and Heavily Loaded Agents”**,
July 16, 2002: Bologna, *Italy*
Dept. of Computer Science.
51. **“Agent Systems, Databases and Legacy Code: How to bring them together”**,
September 4, 2002: Bozen, *Italy*
Dept. of Computer Science.
52. **“HTN Planning and Answer Set Programming”**,
September 20, 2002: Dagstuhl, *Germany*
Seminar on Answer Set Programming.
53. **“Logic Based Agents”**,
September 26, 2002: Cosenza, *Italy*
Invited talk at JELIA 02.
54. **“HTN Planning, Agent Systems and Answer Set Programming”**,
November 20, 2002: Bath, *United Kingdom*
Dept. of Computer Science.