

Curriculum Vitae et Studiorum

Wolfgang Faber

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1 Personal Data

Degrees:	Diplom-Ingenieur, Doctor technicae, Privatdozent (the first two roughly correspond to M.Sc., Ph.D.)
Date and Place of Birth:	8. April 1974, Vienna, Austria
Citizenship:	Austrian
Family Status:	married, no children
Current Position:	Professore Associato (Associate Professor) at the University of Calabria, and Privatdozent (Affiliated Lecturer) at the Vienna University of Technology
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Languages:	German (first language) English (fluent) Italian (fluent) French (high-school level)

2 Education

May 2006	Habilitation officially granted.
April 2006	Habilitation colloquium (for the <i>venia docendi</i> in “Information Systems”), I successfully defended my habilitation thesis “Contributions to Extensions of Answer Set Programming”.
July 2002	Degree “Doctor technicae” (Ph.D.) officially granted.
June 2002	Graduation with honors. Thesis “Enhancing Efficiency and Expressiveness in Answer Set Programming Systems” advised by Prof. Th. Eiter.
October 1998 – June 2002	Doktoratsstudium, Studiengang Informatik (PhD course in Computer Science) at the Vienna University of Technology.
June 1998	Graduation with honors. Thesis “Disjunctive Datalog with Strong and Weak Constraints: Representational and Computational Issues”, advised by Prof. N. Leone.
October 1992 – June 1998	Diplomstudium Informatik (Diploma Study in Computer Science) at the Vienna University of Technology.
June 1992	Graduation with honors.
September 1984 – June 1992	Secondary education at Schottengymnasium, Vienna.
September 1980 – June 1984	Primary education at Volksschule Groß-Enzersdorf.

3 Grants and Awards

April 2004	Awarded an “APART” grant by the Austrian Academy of Sciences for 3 years of research. APART is one of the most prestigious grants in Austria and is awarded to only about 10 researchers (of all fields) per year.
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4 Professional Experience

since December 2006	Professore Associato (Associate Professor) at the University of Calabria, Italy
since May 2006	Privatdozent (Affiliated Lecturer) at the Vienna University of Technology
October 2004 – November 2006	“APART” fellowship of the Austrian Academy of Sciences for 3 years of research. APART is one of the most prestigious grants in Austria and is awarded to only about 10 researchers (of all fields) per year.
October 1999 – November 2006	Universitätsassistent (corresponds to Assistant Professor) at the Knowledge Based Systems Group, Vienna University of Technology.
October 2002 – September 2003	Zivildienst (Social Servant, civil version of compulsory military service) at hospital Krankenhaus Rudolfstiftung, Vienna ¹ .
July 1998 – September 1999	Research Assistant in the project P-11580-MAT “ <i>Design and Implementation of a Query System for Disjunctive Deductive Databases</i> ”, funded by FWF, the Austrian Science Fund.
March 1997 – June 1998	Student Fellow in the project P11580-MAT.
1995 – 1996	Studienassistent (Student Teaching Assistant) at the Institute of Computer Languages, Vienna University of Technology.
1994 – 1998	Tutor for the lab course “Logic-oriented Programming Languages”.

I am also a co-founder of the company DLVSYSTEM s.r.l.

5 Teaching Experience

5.1 Students

- Axel Polleres
 - co-supervised (with Thomas Eiter) Master’s thesis “The DLVK System for Planning with Incomplete Knowledge” 2001
 - Axel has been a postdoctoral researcher at the National University of Ireland, Galway, the University of Innsbruck, Austria, the Universidad Rey Juan Carlos, Spain, and currently is a senior researcher at Siemens, Austria.
- Mario Alviano
 - co-supervised (with Nicola Leone) Master’s thesis “Valutazione Efficiente di Aggregati Ricorsivi in Programmazione Logica” 2007

- Mario has been awarded the prize for the best Italian Master’s thesis on Artificial Intelligence by the Italian Association for Artificial Intelligence in September 2008.
- Mario has started a PhD at the University of Calabria in 2008 under my supervision (together with Nicola Leone). He has graduated in December 2010 and is now a postdoctoral researcher at the University of Calabria.
- Annamaria Bria
 - co-supervised (with Nicola Leone) Doctoral thesis “Normal Form Nested Programs” 2010
 - Annamaria is currently a postdoctoral researcher at the University of Calabria.
- Gennaro Frazzingaro
 - co-supervised (with Giovambattista Ianni) Master’s thesis “Crossing the Line between Procedural and Declarative Programming” 2010
 - Gennaro is an employee at Apple in Cupertino, California.
- Carmine Dodaro
 - co-supervised (with Francesco Ricca, Mario Alviano, and Marco Sirianni) Master’s thesis “WASP: A New Model Generator” 2011
 - Carmine intends to pursue a PhD at the University of Calabria.

I have supervised several other students, even though I have not been their official supervisor. Among these are Simona Perri (currently assistant professor at the University of Calabria), Tina Dell’Armi (project coordinator at the company Exeura and contractual lecturer at the University of Calabria), Giuseppe Ielpa (employee at the company ID Tech), Francesco Calimeri (assistant professor at the University of Calabria), Chiara Cumbo (employee at the company Exeura), Manuela Citrigno (software analyst at the University of Bologna), Francesco Ricca (assistant professor at the University of Calabria).

5.2 Lectures

- Lecture “Fuzzy Logic and Fuzzy Answer Set Programming” at the University of Calabria, Italy (fully responsible, fall 2011)
- Lecture “Knowledge Management” at the University of Calabria, Italy (fully responsible, fall 2011)
- Lecture “Introduzione all’Informatica (Introduction to Computer Science)” at the University of Calabria, Italy (fully responsible, fall 2011)
- Lecture “Computational Complexity” at the University of Calabria, Italy (fully responsible, fall 2010)
- Lecture “Knowledge Management” at the University of Calabria, Italy (fully responsible, fall 2010)
- Lecture “Introduzione all’Informatica (Introduction to Computer Science)” at the University of Calabria, Italy (fully responsible, fall 2010)

- Lecture “Knowledge Management” at the University of Calabria, Italy (fully responsible, fall 2009)
- Lecture “Logic and Computability” at the University of Calabria, Italy (fully responsible, 2009)
- Lecture “Introduzione all’Informatica (Introduction to Computer Science)” at the University of Calabria, Italy (fully responsible, fall 2008)
- Lecture “Ragionamento Automatico (Automated Reasoning)” at the University of Calabria, Italy (fully responsible, fall 2008)
- Lecture “Planning nell’IA (Planning in AI)” at the University of Calabria, Italy (fully responsible, fall 2008)
- Lecture “Ragionamento Automatico (Automated Reasoning)” at the University of Calabria, Italy (fully responsible, fall 2007)
- Lecture “Logiche Nonmonotone (Nonmonotonic Logics)” at the University of Calabria, Italy (fully responsible, 2007)
- Lecture “Ragionamento Automatico (Automated Reasoning)” at the University of Calabria, Italy (fully responsible, 2006 (spring and fall))
- Lecture with Laboratory “Intelligenza Artificiale (Artificial Intelligence)” at University of Calabria, Italy (with Nicola Leone, Simona Perri, Francesco Calimeri, 2004).
- Lecture “AK der Artificial Intelligence 3 (Deduktive Datenbanken/Deductive Databases) 184.225 – 2.0 VU” at TU Vienna, Austria (fully responsible, 2004).
- Lecture “Deductive Databases 184.115 – 2.0 VO” at TU Vienna, Austria (fully responsible, 2001, 2002).
- Lecture “Wissensbasierte Systeme (Knowledge-based Systems) 184.178 – 2.0 VO” at TU Vienna, Austria (with Uwe Egly, Thomas Eiter, Hans Tompits, 2004).
- Lecture with Laboratory “Logikorientierte Programmierung (Logic Programming) 184.143 – 2.0 VL” at TU Vienna, Austria (with Uwe Egly, Hans Tompits, 2004).
- Laboratory course “Logikorientierte Programmierung (Logic Programming) 184.126 – 2.0 LU” at TU Vienna, Austria (with Thomas Eiter, 2001).
- Laboratory course “Einführung in Wissensbasierte Systeme (Introduction to Knowledge-based Systems) 184.176 – 1.0 LU” at TU Vienna, Austria (with Hans Tompits, 2003).
- Various seminars (1999 – 2004).
- Several student practica (1999 – 2004).
- Guest Lecture “Answer Set Based Planning” at University of Leipzig, Germany (2005).
- Guest Lecture “Recursive Aggregates in Disjunctive Logic Programs: Semantics, Complexity, and Computation” at University of Potsdam, Germany (2005).
- Guest Lecture “Answer Set Programming” at University of Messina, Italy (2002).
- Guest Lecture “ASP-based Planning” at University of Reggio Calabria, Italy (2002).
- Guest Lecture “Logic-based Planning” at University of Calabria, Italy (2002).
- Student advisor for a Logic Programming laboratory course (1994 – 1998).

6 Participation in Projects

- Logiche Descrittive Nonmonotone: Complessità e implementazioni (Nonmonotonic Description Logics: Complexity and implementation – LoDeN), PRIN Project 2010 – 2012, funded by the Italian Ministry of Education, Universities, and Research Partners: University of Naples, University of Eastern Piedmont, University of Calabria, National Research Council Pisa
- Potenziamento e Applicazioni della Programmazione Logica Disgiuntiva (Enhancement and Applications of Disjunctive Logic Programming), PRIN Project 2007 – 2009, funded by the Italian Ministry of Education, Universities, and Research Partners: University of Calabria, University of Naples, University of Messina
- Sistemi basati sulla logica per la rappresentazione di conoscenza: estensioni e tecniche di ottimizzazione (Logic-based Systems for Knowledge Representation: Extensions and Optimization Techniques), Italy-Austria Internationalization Project 2004 – 2008, funded by the Italian Ministry of Education, Universities, and Research Partners: Vienna University of Technology, University of Calabria
- Advanced Information Integration (IST-2001-33570 INFOMIX) 2002 – 2005, funded by the European Commission (Fifth Framework Programme) Partners: University of Calabria, University of Rome “La Sapienza”, Vienna University of Technology, Rodan Systems S.A. (company based in Poland)
- Working Group on Answer Set Programming (IST 2001-37004 WASP) 2002 – 2005, funded by the European Commission (Fifth Framework Programme) Partners: University of Messina, Helsinki University of Technology, Vienna University of Technology, University of Cyprus, University of Manchester, University of L’Aquila, University of Calabria, University of A Coruña, University of Trento, University of Leipzig, Frije Universiteit Brussel, University of Bath, University of Potsdam, University of Naples, Katholieke Universiteit Leuven, University Rey Juan Carlos, University of Reggio Calabria, Clausthal University of Technology
- Intelligent Content Management System (IST 2001-32429 ICONS) 2001 – 2003, funded by the European Commission Partners: Rodan Systems S.A. (company based in Poland), Polish Academy of Sciences, CIES (company based in Calabria), InfoVide Sp. z o.o. (company based in Poland), Sema Group Belgium, University Paris 9 Dauphine, University of Ulster
- Answer Set Programming for Reactive Planning and Execution Monitoring (FWF P16536) 2003 – 2006, funded by the Austrian Science Funds Vienna University of Technology
- A Declarative Planning System Based on Logic Programming (FWF P14781) 2001 – 2003, funded by the Austrian Science Funds Vienna University of Technology
- Enhancing Nonmonotonic Systems to Deal with Quantitative Information (scientific collaboration Italy-Austria) 1999 – 2000, funded by the Italian and Austrian governments Partners: Vienna University of Technology, University of Calabria

- Design and Implementation of a Query System for Disjunctive Deductive Databases (FWF P11580)
1997 – 2000, funded by the Austrian Science Funds
Vienna University of Technology

7 Activities in the Scientific Community

7.1 Conference Chairing and Organization

- Program Chair of the 11th International Conference on Logic Programming and Non-monotonic Reasoning, (LPNMR 2011)
- Program Chair of the 25th Italian Conference on Computational Logic, (CILC 2010)
- General Chair of the Second Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP 2009)
- General Chair of the First Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP 2008)
- Local Organization of the Third International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2004)
- Publicity Chair and Local Organization of the 6th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR'01)
- Publicity and Local Organization for the Joint German/Austrian Conference on Artificial Intelligence (KI-2001)

7.2 Program Committee Membership

- 20th European Conference on Artificial Intelligence (ECAI 2012)
- 26th National Conference on Artificial Intelligence (AAAI-12)
- 14th International Workshop on Non-Monotonic Reasoning (NMR 2012)
- 13th International Conference on the Principles of Knowledge Representation and Reasoning (KR2012)
- 38th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2012)
- 25th Workshop on Logic Programming (WLP 2011)
- 26th Italian Conference on Computational Logic (CILC 2011)
- 18th RCRA International Workshop on "Experimental Evaluation of Algorithms for solving problems with combinatorial explosion" (RCRA2011)
- 4th Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP 2011)
- Second International Workshop on Logic-Based Interpretation of Context: Modeling and Applications (Log-IC 2011)

- 25th National Conference on Artificial Intelligence (AAAI-11)
- Tutorial Forum of the 25th National Conference on Artificial Intelligence
- Senior PC of the 22nd International Joint Conference on Artificial Intelligence (IJCAI-11)
- The 18th RCRA International Workshop on Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion (RCRA 2011)
- Nonmonotonic Reasoning at 30 (NMR@30 2010)
- 12th European Conference on Logics in Artificial Intelligence (JELIA 2010)
- 26th International Conference on Logic Programming (ICLP 2010)
- 3rd Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP 2010)
- The 16th RCRA International Workshop on Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion (RCRA 2009)
- First International Workshop on Logic-Based Context Interpretation: Modelling and Applications (Log-IC 2009)
- 2nd International Workshop on Software Engineering for Answer Set Programming (SEA'09)
- 10th International Conference on Logic Programming and Non-Monotonic Reasoning (LPNMR'09)
- 21st International Joint Conference on Artificial Intelligence (IJCAI-09)
- 2nd International Workshop on Logic and Search (LaSh 2008)
- Application Session of the 12th International Workshop on Non-Monotonic Reasoning (NMR 2008)
- 11th International Conference on the Principles of Knowledge Representation and Reasoning (KR2008)
- 12th Conference of the Spanish Association for Artificial Intelligence (CAEPIA'07)
- The 14th RCRA Workshop on Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion (RCRA 2007)
- 22nd National Conference on Artificial Intelligence (AAAI-07)
- 1st Workshop on Correspondence and Equivalence for Nonmonotonic Theories (CENT 2007)
- 1st Workshop on Software Engineering for Answer Set Programming (SEA 2007)
- 9th International Conference on Logic Programming and Non-Monotonic Reasoning (LPNMR 2007)
- 17th European Conference on Artificial Intelligence (ECAI-2006)

- Doctoral Consortium of the 22nd International Conference on Logic Programming (ICLP'06)
- Giornata di Lavoro: Analisi sperimentale e benchmark di algoritmi di Intelligenza Artificiale (RCRA'06 Italian Workshop on Experimental analysis and benchmarks for AI algorithms) 2006
- Answer Set Programming, Special Session of the 11th International Workshop on Non-Monotonic Reasoning (NMR 2006)
- 11th Conference of the Spanish Association for Artificial Intelligence (CAEPIA'05)
- INFOMIX Workshop on Data Integration 2005
- 8th International Conference on Logic Programming and Non-Monotonic Reasoning (LPNMR 2005)
- Giornata di Lavoro: Analisi sperimentale e benchmark di algoritmi di Intelligenza Artificiale (RCRA'05 Italian Workshop on Experimental analysis and benchmarks for AI algorithms) 2005
- Computational Aspects of Non-monotonic Reasoning, Subworkshop of the 10th International Workshop on Non-Monotonic Reasoning (NMR 2004)
- 8th European Conference on Logics in Artificial Intelligence (JELIA'02)

7.3 Invited Talks and Tutorials

- “Aggregates in Answer Set Programming,” invited talk given at the 23rd Italian Conference on Computational Logic, July 2008
- “Disjunctive Logic Programming: Problem-Solving Techniques, Systems, and Applications,” tutorial given at the Joint Conference on Declarative Programming APPIA-GULP-PRODE, September 2003

7.4 Talks (other than conferences and workshops)

- “Manifold Answer-Set Programs and Consequence Modules”
given at the Comenius University in Bratislava, Slovakia, January 8, 2010
- “Aggregate in Logischen Programmen”
given at the University of Leipzig, Germany, November 14, 2005
- “Answer Set Based Planning: Planning with Action Languages”
given at the University of Leipzig, Germany, May 3, 2005
- “Recursive Aggregates in Disjunctive Logic Programs: Semantics, Complexity, and Computation”
given at the University of Potsdam, Germany, May 4, 2005
- “Modularity, Magic Sets and their Application to Data Integration”
given at Seminar “Nonmonotonic Reasoning, Answer Set Programming and Constraints” at Schloss Dagstuhl, April 25, 2005

- “Knowledge-based Planning and ASP”
given at Seminar “Nonmonotonic Reasoning, Answer Set Programming and Constraints” at Schloss Dagstuhl, September 19, 2002
- “Logic-based Planning”
given at the University of Calabria, Italy, May 31, 2002
- “ASP-based Planning”
given at the University of Reggio Calabria, Italy, May 27, 2002
- “Answer Set Programming”
given at the University of Messina, Italy, May 27, 2002

7.5 Editor and Peer Reviews

Editor for Journals

- Editorial Board for Advances in Artificial Intelligence
- Guest Editor for Theory and Practice of Logic Programming

Peer Reviews for Journals and Collections

- ACM Transactions on Computational Logic
- Annals of Mathematics and Artificial Intelligence
- Artificial Intelligence
- Computational Logic: From Logic Programming into the Future (In honour of Bob Kowalski)
- Data & Knowledge Engineering
- IEEE Transactions on Knowledge and Data Engineering
- Information Systems
- Information Fusion
- International Journal of Approximate Reasoning
- Journal of Artificial Intelligence Research
- Journal of Algorithms in Logic, Informatics and Cognition
- Journal of Automated Reasoning
- Journal of Computer and System Sciences
- Science of Computer Programming
- Theory and Practice of Logic Programming

Peer Reviews for Conferences and Workshops

- 31st ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems (PODS 2012)
- 5th Latin American Workshop On Non-Monotonic Reasoning (LANMR 2009)
- 25th International Conference on Logic Programming (ICLP'09)
- The 15th RCRA Workshop on Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion (RCRA 2008)
- 15th International Conference on Logic for Programming Artificial Intelligence and Reasoning (LPAR 2008)
- 11th European Conference on Logics in Artificial Intelligence (JELIA 2008)
- 24th International Conference on Logic Programming (ICLP'08)
- 18th European Conference on Artificial Intelligence (ECAI 2008)
- 23rd National Conference on Artificial Intelligence (AAAI-08)
- 8th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 2008)
- 10th International Symposium on Practical Aspects of Declarative Languages (PADL'08)
- 4th International Workshop on Answer Set Programming (ASP'07)
- 30th German Conference on Artificial Intelligence (KI 2007)
- 16th EACSL Annual Conference on Computer Science and Logic (CSL'07)
- 23rd International Conference on Logic Programming (ICLP'07)
- 26th ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems (PODS 2007)
- 22nd International Conference on Logic Programming (ICLP'06)
- 25th ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems (PODS 2006)
- International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2005)
- 12th International Conference on Logic for Programming Artificial Intelligence and Reasoning (LPAR 2005)
- 11th Conference of the Spanish Association for Artificial Intelligence (CAEPIA'05)
- Italian Conference on Theoretical Computer Science (ICTCS'05)
- 20th National Conference on Artificial Intelligence (AAAI-05)
- 18th International Joint Conference on Artificial Intelligence (IJCAI 2005)
- 5th International Conference on Knowledge Based Systems (KBCS-04)

- 9th European Conference on Logics in Artificial Intelligence (JELIA'04)
- 16th European Conference on Artificial Intelligence (ECAI 2004)
- 19th National Conference on Artificial Intelligence (AAAI-04)
- 23rd ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems (PODS 2004)
- 9th International Conference on the Principles of Knowledge Representation and Reasoning (KR 2004)
- 7th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR-7)
- 17th International Joint Conference on Artificial Intelligence (IJCAI 2003)
- 19th International Conference on Automated Deduction (CADE-19)
- 18th National Conference on Artificial Intelligence (AAAI 2002)
- STarting Artificial Intelligence Researchers Symposium (STAIRS 2002)
- 9th International Workshop on Non-Monotonic Reasoning (NMR'2002)
- 18th International Conference on Logic Programming (ICLP'01)
- 6th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR'01)
- 17th International Joint Conference on Artificial Intelligence (IJCAI'01)
- First International Joint Conference on Automated Reasoning (IJCAR'01)
- Fourth International Conference on Multi-Agent Systems (ICMAS-2000)
- International Symposium on Foundations of Information and Knowledge Systems (FoIKS 2000)
- First International Conference on Computational Logic (CL2000)
- 7th International Conference on Principles of Knowledge Representation and Reasoning (KR 2000)
- 8th International Workshop on Non-Monotonic Reasoning (NMR'2000)
- 5th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR'99)
- 10th International Conference and Workshop on Database and Expert Systems Applications (DEXA'99)

8 Publications

Edited Books and Volumes

- [1] James Delgrande and Wolfgang Faber, editors. *Logic Programming and Nonmonotonic Reasoning — 11th International Conference, LPNMR 2011, Vancouver, Canada, May 2011, Proceedings*, number 6645 in Lecture Notes in AI (LNAI). Springer Verlag, 2011.
- [2] Wolfgang Faber and Nicola Leone, editors. *Proceedings of the 25th Italian Conference on Computational Logic*, number 598. CEUR-WS, 2010.
- [3] Thomas Eiter, Wolfgang Faber, and Mirosław Truszczyński, editors. *Logic Programming and Nonmonotonic Reasoning — 6th International Conference, LPNMR'01, Vienna, Austria, September 2001, Proceedings*, number 2173 in Lecture Notes in AI (LNAI). Springer Verlag, 2001.

Chapters in Books and Collections

- [4] Mario Alviano, Wolfgang Faber, Nicola Leone, Simona Perri, Gerald Pfeifer, and Giorgio Terracina. The disjunctive datalog system DLV. In Oege de Moor, Georg Gottlob, Tim Furche, and Andrew Sellers, editors, *Datalog Reloaded: First International Workshop, Datalog 2010, Oxford, UK, March 16-19, 2010. Revised Selected Papers*, number 6702 in Lecture Notes in AI (LNAI). Springer Verlag, 2011.
- [5] Mario Alviano, Francesco Calimeri, Wolfgang Faber, Giovambattista Ianni, and Nicola Leone. Function symbols in ASP: Overview and perspectives. In Gerhard Brewka, Victor Marek, and Mirosław Truszczyński, editors, *Nonmonotonic Reasoning at 30*, volume 31 of *Studies in Logic*, pages 1–24. College Publications, June 2011.
- [6] Wolfgang Faber and Stefan Woltran. Manifold answer-set programs and their applications. In Marcello Balduccini and Son Tran, editors, *Logic Programming, Knowledge Representation, and Nonmonotonic Reasoning: Essays Dedicated to Michael Gelfond on the Occasion of His 65th Birthday*, number 6565 in Lecture Notes in AI (LNAI), pages 44–63. Springer Verlag, 2011.
- [7] Wolfgang Faber, Nicola Leone, and Francesco Ricca. Answer set programming. In Benjamin W. Wah, editor, *Wiley Encyclopedia of Computer Science and Engineering*, volume 1, pages 149–162. John Wiley & Sons, Inc., January 2009.
- [8] Thomas Eiter, Wolfgang Faber, Gerald Pfeifer, and Axel Polleres. Declarative planning and knowledge representation in an action language. In Ioannis Vlahavas and Dimitris Vrakas, editors, *Intelligent Techniques for Planning*, chapter 1, pages 1–34. Idea Group, Inc., 2005.
- [9] Thomas Eiter, Wolfgang Faber, Nicola Leone, and Gerald Pfeifer. Declarative Problem-Solving Using the DLV System. In Jack Minker, editor, *Logic-Based Artificial Intelligence*, pages 79–103. Kluwer Academic Publishers, 2000.

Journal Articles

- [10] Mario Alviano, Francesco Calimeri, Wolfgang Faber, Nicola Leone, and Simona Perri. Unfounded sets and well-founded semantics of answer set programs with aggregates. *Journal of Artificial Intelligence Research*, 42:487–527, November 2011.

- [11] Wolfgang Faber, Nicola Leone, Marco Maratea, and Francesco Ricca. Look-back techniques for ASP programs with aggregates. *Fundamenta Informaticae*, 107(4):379–413, 2011.
- [12] Mario Alviano and Wolfgang Faber. Dynamic magic sets and super-coherent answer set programs. *AI Communications – The European Journal on Artificial Intelligence*, 24(2):125–145, 2011.
- [13] Wolfgang Faber, Nicola Leone, and Gerald Pfeifer. Semantics and complexity of recursive aggregates in answer set programming. *Artificial Intelligence*, 175(1):278–298, 2011. Special Issue: John McCarthy’s Legacy.
- [14] Mario Alviano, Wolfgang Faber, and Nicola Leone. Disjunctive asp with functions: Decidable queries and effective computation. *Theory and Practice of Logic Programming, 26th Int’l. Conference on Logic Programming (ICLP’10) Special Issue*, 10(4–6):497–512, 2010.
- [15] Annamaria Bria, Wolfgang Faber, and Nicola Leone. Normal form nested programs. *Fundamenta Informaticae*, 96(3):271–295, 2009.
- [16] Wolfgang Faber, Gerald Pfeifer, Nicola Leone, Tina Dell’Armi, and Giuseppe Ielpa. Design and implementation of aggregate functions in the dlvs system. *Theory and Practice of Logic Programming*, 8(5–6):545–580, 2008.
- [17] Marco Maratea, Francesco Ricca, Wolfgang Faber, and Nicola Leone. Look-back techniques and heuristics in dlvs: Implementation, evaluation and comparison to qbf solvers. *Journal of Algorithms in Cognition, Informatics and Logics*, 63(1–3):70–89, 2008.
- [18] Thomas Eiter, Esra Erdem, and Wolfgang Faber. Undoing the Effects of Action Sequences. *Journal of Applied Logic*, 6(3):380–415, 2008.
- [19] Thomas Eiter, Wolfgang Faber, Michael Fink, and Stefan Woltran. Complexity results for answer set programming with bounded predicate arities and implications. *Annals of Mathematics and Artificial Intelligence*, 51(2–4):123–165, 2007.
- [20] Wolfgang Faber, Nicola Leone, Gerald Pfeifer, and Francesco Ricca. On look-ahead heuristics in disjunctive logic programming. *Annals of Mathematics and Artificial Intelligence*, 51(2–4):229–266, 2007.
- [21] Thomas Eiter, Esra Erdem, Wolfgang Faber, and Ján Senko. A Logic-Based Approach to Finding Explanations for Discrepancies in Optimistic Plan Execution. *Fundamenta Informaticae*, 79(1–2):25–69, 2007.
- [22] Wolfgang Faber, Gianluigi Greco, and Nicola Leone. Magic Sets and their Application to Data Integration. *Journal of Computer and System Sciences*, 73(4):584–609, 2007.
- [23] Wolfgang Faber and Kathrin Konczak. Strong Order Equivalence. *Annals of Mathematics and Artificial Intelligence*, 47(1–2):43–78, June 2006.
- [24] Nicola Leone, Gerald Pfeifer, Wolfgang Faber, Thomas Eiter, Georg Gottlob, Simona Perri, and Francesco Scarcello. The DLV System for Knowledge Representation and Reasoning. *ACM Transactions on Computational Logic*, 7(3):499–562, July 2006.

- [25] Francesco Ricca, Wolfgang Faber, and Nicola Leone. A Backjumping Technique for Disjunctive Logic Programming. *AI Communications – The European Journal on Artificial Intelligence*, 19(2):155–172, 2006.
- [26] Francesco Calimeri, Wolfgang Faber, Nicola Leone, and Gerald Pfeifer. Pruning Operators for Disjunctive Logic Programming Systems. *Fundamenta Informaticae*, 71(2–3), 2006.
- [27] Wolfgang Faber, Nicola Leone, and Francesco Ricca. Solving Hard Problems for the Second Level of the Polynomial Hierarchy: Heuristics and Benchmarks. *Intelligenza Artificiale*, 2(3):21–28, September 2005.
- [28] Thomas Eiter, Wolfgang Faber, Nicola Leone, Gerald Pfeifer, and Axel Polleres. A Logic Programming Approach to Knowledge-State Planning: Semantics and Complexity. *ACM Transactions on Computational Logic*, 5(2):206–263, April 2004.
- [29] Thomas Eiter, Wolfgang Faber, Nicola Leone, and Gerald Pfeifer. Computing Preferred Answer Sets by Meta-Interpretation in Answer Set Programming. *Theory and Practice of Logic Programming*, 3:463–498, July/September 2003.
- [30] Thomas Eiter, Wolfgang Faber, Nicola Leone, Gerald Pfeifer, and Axel Polleres. Answer Set Planning under Action Costs. *Journal of Artificial Intelligence Research*, 19:25–71, 2003.
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