

Lebenslauf

Privatdoz. Dipl.-Ing. Dr.techn. Stefan WOLTRAN

Persönliche Daten

Geburtsdatum: 8. Jänner 1975
Geburtsort: Mödling
Staatsangehörigkeit: Österreich
Familienstand: ledig

Werdegang

1981 bis 1985: Volksschule Katzelsdorf.
1985 bis 1989: Klemens. M. Hofbauer Gymnasium Katzelsdorf.
1989 bis 1994: Höhere technische Bundes- Lehr- und Versuchsanstalt Wr. Neustadt.
1994 bis 2001: Studium der Informatik an der Technischen Universität Wien.
2001 bis 2003: Doktoratsstudium an der Technischen Universität Wien.

Juli 2001 bis Mai 2007: tätig am Institut für Informationssysteme,
Arbeitsbereich für Wissensbasierte Systeme, TU Wien.
seit Juni 2007: Universitätsassistent am Institut für Informationssysteme,
Arbeitsbereich für Datenbanken und Artificial Intelligence, TU Wien.

Ausbildung

Reifeprüfung (20. Juni 1994)

Höhere technische Bundes- Lehr- und Versuchsanstalt Wiener Neustadt,
Fachrichtung Informatik (EDVO) (*mit Auszeichnung*).

Diplomprüfung (22. Jänner 2001)

Technische Universität Wien, Technisch-Naturwissenschaftliche Fakultät (*mit Auszeichnung*).

Thema der Diplomarbeit: *A Framework for Solving Advanced Reasoning Tasks*
(*ausgezeichnet mit dem OCG-Förderpreis 2002*).

Gutachter: Ao. Univ. Prof. Dr. Uwe Egly.

Rigorosum (29. April 2003)

Technische Universität Wien, Technisch-Naturwissenschaftliche Fakultät
(*mit Auszeichnung*).

Thema der Dissertation: *Quantified Boolean Formulas - From Theory to Practice*

Gutachter: Ao. Univ. Prof. Dr. Uwe Egly und O. Univ. Prof. Dr. Thomas Eiter.

Habilitation (07. November 2008)

Technische Universität Wien, Technisch-Naturwissenschaftliche Fakultät

Verleihung der Lehrbefugnis (*venia docendi*) für das Fach "Informationssysteme".

Habilitationsschrift: *Contributions to Advanced Equivalence Checking in Answer Set Programming*.

Stipendien/Auszeichnungen

- Förderungsstipendium der TU Wien, 2000.
- Windhagstipendium des Landes Niederösterreich für besondere Studienleistungen, 2001.
- Förderungsstipendium der TU Wien, 2001.
- OCG-Förderpreis für hervorragende Diplom- und Magisterarbeiten aus dem Bereich der Informatik, 2002.
- Best paper awards (ASP-Workshop 2005, RR 2010, COMMA 2010) – siehe Publikationsliste für Details.

Wissenschaftliche Aktivitäten

Vorsitzender Programmkomitee

- *14th International Workshop on Non-Monotonic Reasoning (NMR'12)*, Rom, Italien, Juni 2012. (Program Co-Chair gemeinsam mit R. Rosati.)

Organisation von Konferenzen Arbeitstagungen

- Mitorganisator der *4th International Conference on Computational Models of Argument (COMMA'12)*, Wien, (geplant) Sept. 2012. (Gemeinsam mit S. Szeider.)
- Mitorganisator des *8th Doctoral Consortium on Logic Programming* im Rahmen der *28th International Conference on Logic Programming (ICLP'12)*, Budapest, Ungarn. September 2011. (Gemeinsam mit M. Gavanelli.)
- Mitorganisator des *7th Doctoral Consortium on Logic Programming* im Rahmen der *27th International Conference on Logic Programming (ICLP'11)*, Lexington, Kentucky, USA. Juli 2011. (Gemeinsam mit A. Del Palú.)
- Mitorganisator des *ICLP-Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP'11)*, Lexington, Kentucky, USA. Juli 2011. (Gemeinsam mit M. Balduccini.)
- Mitorganisator des *FLOC-Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP'10)*, Edinburgh, UK. Juli 2010. (Gemeinsam mit M. Balduccini.)
- Mitorganisator des *MFCS/CSL Satellite Workshop on Parameterized Complexity of Computational Reasoning (PCCR'10)*, Brno, Tschechien, August 2010. (Gemeinsam mit I. Razgon, M. Samer und S. Szeider.)
- Mitorganisator des *LPNMR-Workshop on Correspondence and Equivalence for Nonmonotonic Theories (CENT'07)*, Tempe, Arizona, USA. Mai 2007. (Gemeinsam mit A. Polleres, D. Pearce und A. Valverde.)
- Mitorganisator des *Workshop on Logic Programming (WLP'06)*, Wien, Februar 2006. (Gemeinsam mit M. Fink und H. Tompits.)

Mitgliedschaft in Programmkomitees

- *13th International Conference on Principles of Knowledge Representation and Reasoning*, KR 2012, Rom, Italien.
- *20th European Conference on Artificial Intelligence*, ECAI 2012, Montpellier, Frankreich.
- *28th International Conference on Logic Programming*, ICLP 2012, Budapest, Ungarn.
- *7th International Symposium on Foundations of Information and Knowledge Systems*, FoIKS 2012, Kiel, Deutschland.
- *4th International Conference on Agents and Artificial Intelligence*, ICAART 2012, Vilamoura, Portugal.
- *22nd International Joint Conference on Artificial Intelligence*, IJCAI 2011, Barcelona, Katalonien/Spanien.
- *25th Conference on Artificial Intelligence*, AAAI 2011, San Francisco, California, USA.
- *27th International Conference on Logic Programming*, ICLP 2011, Lexington, Kentucky, USA.
- *11th International Conference on Logic Programming and Nonmonotonic Reasoning*, LPNMR 2011, Vancouver, BC, Kanada.
- *19th European Conference on Artificial Intelligence*, ECAI 2010, Lissabon, Portugal.
- *26th International Conference on Logic Programming*, ICLP 2010, Edinburgh, UK.
- *25th Italian Conference on Computational Logic*, CILC 2010, Rende, Italien.
- *30 Years of Nonmonotonic Logic – International Conference*, 2010, Lexington, Kentucky, USA.
- *21st International Joint Conference on Artificial Intelligence*, IJCAI 2009, Pasadena, Kalifornien, USA.
- *10th International Conference on Logic Programming and Nonmonotonic Reasoning*, LPNMR 2009, Potsdam, Deutschland.
- *23rd International Conference on Logic Programming*, ICLP 2007, Porto, Portugal.
- *17th European Conference on Artificial Intelligence*, ECAI 2006, Riva del Garda, Italien.
- *19th National Conference on Artificial Intelligence*, AAAI 2004, San Jose, Kalifornien, USA.
- *1st International Workshop on the Theory and Applications of Formal Argumentation*, TAFA 2011, Barcelona, Katalonien/Spanien.
- *1st International Workshop on Data, Logic and Inconsistency*, DALI 2011, Toulouse, Frankreich.
- *1st Workshop on Grounding and Transformations for Theories with Variables*, GTTV 2011, Vancouver, BC, Kanada.
- *KR 2010 Doctoral Consortium*, 2010, Toronto, Kanada.

- *2nd International Workshop on Answer Set Programming and Other Computing Paradigms*, ASPOCP 2009, Pasadena, California, USA.
- *1st International Workshop on Answer Set Programming and Other Computing Paradigms*, ASPOCP 2008, Udine, Italien.
- *2nd International Workshop on Software Engineering for Answer Set Programming*, SEA 2009, Potsdam, Deutschland.
- *1st International Workshop on Software Engineering for Answer Set Programming*, SEA 2007, Tempe, Arizona, USA.
- *2nd International Workshop on Logic-Based Interpretation of Context: Modelling and Applications*, Log-IC 2011, Vancouver, BC, Kanada.
- *1st International Workshop on Logic-Based Interpretation of Context: Modelling and Applications*, Log-IC 2009, Potsdam, Deutschland.
- *Workshop on Answer Set Programming*, ASP 2005, Bath, Großbritannienien.

Editorial Boards

- Area Editor: Newsletter of the Association for Logic Programming.

Gutachtertätigkeiten

- Zeitschriften:
 - Artificial Intelligence (AIJ).
 - Annals of Mathematics and Artificial Intelligence (AMAI).
 - Journal of Artificial Intelligence Research (JAIR).
 - Theory and Practice of Logic Programming (TPLP).
 - Journal of Logic and Computation (JLC).
 - AI Communications (AICOM).
 - Argument and Computation.
 - Journal of Computer Science and Technology (JCST).
 - Journal of Philosophical Logic.
 - Computación y Sistemas (Computing and Systems).
 - Electronic Notes in Theoretical Computer Science.
- Konferenzen:
 - International Joint Conference on Artificial Intelligence (IJCAI).
 - National Conference on Artificial Intelligence (AAAI).
 - European Conference on Artificial Intelligence (ECAI).
 - IEEE Logic in Computer Science Conference (LICS).
 - International Conference on Automated Deduction (CADE).

- International Conference on Principles of Knowledge Representation and Reasoning (KR).
- International Conference on Logic Programming (ICLP).
- International Conference on Extending Database Technology (EDBT).
- European Semantic Web Conference (ESWC).
- International Conference on Logic Programming and Non-monotonic Reasoning (LPNMR).
- International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR).
- European Conference on Logics in Artificial Intelligence (JELIA).
- IEEE International Conference on Tools with Artificial Intelligence (ICTAI).
- Computer Science Logic Conference (CSL).
- International Conference on Automated Reasoning with Analytic Tableaux and Related Methods (TABLEAUX).
- International Symposium on Foundations of Information and Knowledge Systems (FOIKS).
- International Conference on Scalable Uncertainty Management (SUM).
- International Conference on Theory and Applications of Satisfiability Testing (SAT).
- European Starting AI Researcher Symposium (STAIRS).
- International Workshop on Parameterized and Exact Computation (IWPEC).
- Indian Conference on Logic and its Applications (ICLA).
- Workshop on Logic, Language, Information and Computation (WoLLIC).
- World Congress on Paraconsistency (WCP).

Laufende Projekte

- *New Methods for Analyzing, Comparing, and Solving Argumentation Problems*
Technische Universität Wien;
Projektleiter.
Projektstart: April 2009.
Finanzierung: *WWTF – Wiener Wissenschafts-, Forschungs- und Technologiefonds*
(Projekt Nummer ICT 08-028).
- *dynASP - A Dynamic-Programming based Solver for Answer Set Programs*
Technische Universität Wien;
Projektleiter.
Projektstart: März 2011.
Finanzierung: *TU Wien; Innovative Ideen.*
(Projekt Nummer 9006.09/008).
- *Complexity of Argumentation*
Bilaterales Projekt Frankreich - Österreich; TU Wien / Univ. Marseille;
Projektleitung gemeinsam mit N. Creignou.
Projektstart: Jänner 2011.
Finanzierung: *Österreichischer Austauschdienst (ÖAD).*
(Projekt Nummer Amadée FR 17/2011).
- *Turning Theoretical Tractability into Efficient Computation via Datalog*
Technische Universität Wien;
maßgeblich beteiligt bei der Anbahnung und Einreichung;
Projektstart: September 2008.
Projektleitung: R. Pichler, TU Wien.
Finanzierung: *FWF – Fonds zur Förderung der wissenschaftlichen Forschung*
(Projekt Nummer P20704).
- *Service-Oriented Data Integration*
Technische Universität Wien;
Kollaborator;
Projektstart: April 2009.
Projektleitung: R. Pichler, TU Wien.
Finanzierung: *WWTF – Wiener Wissenschafts-, Forschungs- und Technologiefonds*
(Projekt Nummer ICT 080-032).

Projekterfahrung

- *QUIP: A Computational Framework for Advanced Reasoning Tasks*
Technische Universität Wien;
angestellt als hauptverantwortlicher Projektmitarbeiter, Juli 2001–Oktober 2004;
Projektleitung: U. Egly, TU Wien.
Finanzierung: *FWF – Fonds zur Förderung der wissenschaftlichen Forschung*
(Projekt Nummer P15068-INF).
- *WASP: Working Group on Answer Set Programming*
EU-weit, September 2002–September 2005;
zuständig für die Koordination des WASP-Knotens TU Wien.
Projektleitung: A. Provetti, Universität Messina, Italien.
Finanzierung: *Europäische Kommission; FET (“Future Emerging Technologies”) - Initiative*
(Projekt Nummer: IST-FET-2001-37004).
- *Optimizing Logic Programs under the Answer-Set Programming Paradigm*
TU Wien / Comenius-Universität Bratislava, November 2003–Dezember 2004;
zuständig für die Einreichung und Abwicklung seitens der TU Wien.
Projektleitung: T. Eiter, TU Wien; J. Sefranek, Comenius-Universität Bratislava.
Bilaterales Projekt Slowakei - Österreich; *Slovenská akademická informaná agentúra (SAIA)*
und *Österreichischer Austauschdienst (ÖAD)*.
- *INFOMIX*
TU Wien, Universität Calabria, Universität Rom “La Sapienza” (beide Italien), Rodan Systems
(Polen);
angestellt als Projektmitarbeiter, November 2004–Jänner 2005.
Finanzierung: *Europäische Kommission*; (Projekt Nummer: IST-2001-33570).
- *Answer Set Programming for Reactive Planning and Execution Monitoring*
Technische Universität Wien;
angestellt als Projektmitarbeiter, Februar 2005–März 2005.
Projektleitung: T. Eiter, TU Wien.
Finanzierung: *FWF – Fonds zur Förderung der wissenschaftlichen Forschung*
(Projekt Nummer P16536-N04).
- *Formal Methods for Comparing and Optimizing Nonmonotonic Logic Programs*
Technische Universität Wien;
maßgeblich beteiligt bei der Anbahnung und Einreichung;
angestellt als hauptverantwortlicher Projektmitarbeiter, April 2005–Mai 2007.
Projektleitung: H. Tompits, TU Wien.
Finanzierung: *FWF – Fonds zur Förderung der wissenschaftlichen Forschung*
(Projekt Nummer P18019-O4).

Auslandsaufenthalte

- Oktober-Dezember 2009. Forschungsaufenthalt bei Prof. Gerhard Brewka. Universität Leipzig, Deutschland.

Eingeladene Vorträge + Panels

- *Panel Discussion / 1st International Workshop on the Theory and Applications of Formal Argumentation (TAFA'11)*. Barcelona, Juli 2011.
- *Computational Aspects of Formal Argumentation*. TU Dresden. Berufungsvortrag. Dresden, März 2011.
- *Computational Aspects of Abstract Argumentation*. Helsinki Graduate School in Computer Science and Engineering. Invited Lecture. Helsinki, September 2010.
- *Strong Equivalence in Argumentation (and other KR-Formalisms)*. 11th International Workshop on Computational Logic in Multi-Agent Systems. Invited Talk. Lissabon, August 2010.
- *Deciding Equivalence between Extended Datalog Programs. A Brief Survey*. Datalog 2.0 Workshop, Oxford, U.K., März 2010.
- *Belief Revision with Bounded Treewidth*. Dagstuhl Seminar Nr. 09351 "Information Processing, Rational Belief Change and Social Interaction", Dagstuhl, August 2009.
- *"In der Informatik geht es genau so wenig um Computer, wie in der Astronomie um Teleskope"*. Eingeladener Vortrag beim Fest "20 Jahre EDVO-Abteilung in der HTL Wr. Neustadt", April 2008.
- *On Solution Correspondences in Answer Set Programming: A General Framework (and Characterizations for the Ground Case)*. Dagstuhl Seminar Nr. 05171 "Nonmonotonic Reasoning, Answer Set Programming and Constraints", Dagstuhl, April 2005.
- *Paraconsistent Reasoning via QBFs*. Dagstuhl Seminar Nr. 03241 "Inconsistency Tolerance", Dagstuhl, Mai 2003.
- *On Implementing Nested Logic Programs*. Dagstuhl Seminar Nr. 02381 "Nonmonotonic Reasoning, Answer Set Programming and Constraints", Dagstuhl, September 2002.

Weitere Vorträge

- *Strong Equivalence in Argumentation*. Seminarvortrag, Universität Leipzig, Juni 2011.
- *The WWTF Project "New Methods for Analyzing, Comparing, and Solving Argumentation Problems"; Progress Report and Lessons Learned*. "2nd Argumentation Christmas Meeting", TU Wien, Dezember 2010.
- *Characterizing Strong Equivalence for Argumentation Frameworks*. Workshop on Hybrid Knowledge Representation and Reasoning (HKRR 2010), Hotel Kaiserhof Wien, März 2010.

- *Characterizing Strong Equivalence for Argumentation Frameworks*. “Argumentation Christmas Meeting”, Universität Leipzig, Dezember 2009.
- *Hyperequivalence in Logic Programming*. Seminarvortrag, Digital Enterprise Research Institute (DERI), National University of Ireland, Galway, Irland, August 2008.
- *Strong Equivalence and Preference Handling in Answer-Set Programming*. Seminarvortrag, Universität Potsdam, Institut für Informatik, Dezember 2007.
- *Complexity of Rule Redundancy in Non-Ground Answer-Set Programming over Finite Domains*. Seminarvortrag, Dept of Informatics, Statistics and Telematics, Universidad Rey Juan Carlos, Móstoles, Spanien. Februar 2007.
- *Replacements in Non-Ground Answer-Set Programming*. Seminarvortrag, Comenius-Universität Bratislava. Oktober 2006.
- *Replacements in Non-Ground Answer-Set Programming*. Seminarvortrag, Helsinki University of Technology, Laboratory for Theoretical Computer Science, September 2006.
- *Complexity Results for Checking Equivalence of Stratified Logic Programs*. Seminarvortrag, Universität Potsdam, Institut für Informatik, Juli 2006.
- *Survey of Equivalences in ASP*. Seminarvortrag, Universität Potsdam, Institut für Informatik, November 2005.
- *Solution Correspondences in Answer-Set Programming: An Overview*. Seminarvortrag, Dept of Informatics, Statistics and Telematics, Universidad Rey Juan Carlos, Móstoles, Spanien. Oktober 2005.
- *Node Presentation: TU Wien*. Workshop ASP-05 – Meeting of the European Working Group on Answer Set Programming (WASP). University of Bath, UK, Juli 2005.
- *Solution Correspondences in Answer-Set Programming: An Overview*. Seminarvortrag, Università della Calabria, Dipartimento di Matematica, Juni 2005.
- *Complexity of Equivalence between Propositional Logic Programs*. Seminarvortrag, Comenius-Universität Bratislava. November 2004.
- *Relativized Notions of Equivalence in ASP*. Seminarvortrag, Universität Potsdam, Institut für Informatik, August 2004.
- *Elimination of Disjunction in Stable Logic Programming*. Seminarvortrag, Comenius-Universität Bratislava. Juni 2004.
- *On Simplifying and Rewriting Logic Programs: Characterisations and Complexity*. Seminarvortrag, Comenius-Universität Bratislava. Jänner 2004.
- *Node Presentation: TU Wien*. Workshop ASP-03 – Meeting of the European Working Group on Answer Set Programming (WASP). Messina, Italien, September 2003.
- *Deciding Strong Equivalence between Logic Programs*. Seminarvortrag, Universität Potsdam, Institut für Informatik, Dezember 2002.

- *QBFs and their Application in Belief Revision*. Seminarvortrag, Universität Potsdam, Institut für Informatik, August 2001.

Bisherige Lehrtätigkeit

Wenn nicht anders angegeben, beziehen sich folgende Lehrveranstaltungen auf die TU Wien.

- Semistrukturierte Daten (VL, 2.0h, SS), seit SS08, (hauptverantwortlich).
- Deduktive Datenbanken (VO 2.0h, WS), seit WS06/07, (hauptverantwortlich).
- Abstract Argumentation (VU, 3.0h), SS11, (gemeinsam mit U. Egly).
- Grundlagen methodischen Arbeitens (SE 2.0h), SS10 und SS11, (hauptverantwortlich).
- Wissensrepräsentation (VO 2.0h), WS09/10, Universität Leipzig, (gemeinsam mit G. Brewka)
- Seminar “Formale Modelle des Argumentierens” (SE 2.0h), WS09/10, Universität Leipzig, (gemeinsam mit G. Brewka)
- AK der AI 3 - Deduktive Datenbanken (VU 2.0h, WS), im WS05/06, (hauptverantwortlich).
- Logik für Wissensrepräsentation (VO 2.0h, SS), SS05–SS07, (gemeinsam mit H. Tompits).
- Einführung in Wissensbasierte Systeme (LU 1.0h, SS) im SS03, (gemeinsam mit M. Fink).
- Seminar (mit Bachelorarbeit) (SE 4.0h, WS+SS), seit WS 08/09.
- Seminar aus Logik (SE 2.0h, SS), seit SS08.
- Seminar aus Artificial Intelligence (SE 2.0h, SS) im SS03 und seit SS10.
- diverse Praktika.

Studienassistent (Tutor)

- Logikorientierte Programmiersprachen (LU 2.0h, WS), WS01/02–WS02/03.
- Datenmodellierung (VU 2.0h, WS+SS) im SS01.
- Systemprogrammierung (LU 2.0h, WS+SS), WS97/98–SS00.

Betreute Diplom-/Magisterarbeiten

- Michael Morak. *dynASP - A Dynamic Programming-based Answer-Set Programming Solver*, 2011.
Ausgezeichnet mit dem “Würdigungspreis” des Ministeriums für Wissenschaft und Forschung.
- Andreas Pfandler. *Decentralized Diagnosis: Complexity Analysis and Datalog Encodings*, 2009.
- Anna Roubickova. *Complexity of Argumentation*, 2009.
- Wolfgang Dvořák. *Alternation as a Programming Paradigm*, 2009.
- Sarah Alice Gaggl. *Solving Argumentation Frameworks using Answer Set Programming*, 2009.
- Stefan Rümmele. *Efficient Counting with Bounded Treewidth using Datalog*, 2008.
Ausgezeichnet mit dem “Distinguished Young Alumnus”-Award der Fakultät für Informatik der TU Wien.
- Jörg Pührer. *On Debugging of Propositional Answer-Set Programs*, 2007.
- Andreas Heindl. *On Replacements in Answer-Set Programming based On Partial Evaluation*, 2007.
- Patrick Traxler. *Techniques for Simplifying Disjunctive Datalog Programs with Negation*, 2006.
- Michael Zolda. *Comparing Different Prenexing Strategies for Quantified Boolean Formulas*, 2004.

Wolfgang Dvořák, Sarah Alice Gaggl, Michael Morak, Andreas Pfandler, Jörg Pührer und Stefan Rümmele sind zurzeit als DoktorandInnen am Institut für Informationssysteme der TU Wien beschäftigt. Michael Zolda ist aktuell am Institut für Technische Informatik der TU Wien als Projektassistent tätig.

Betreute Dissertationen

- Michael Jakl. *Fixed Parameter Algorithms for Answer Set Programming*. 2010.
- Martina Seidl. *A Solver for Quantified Boolean Formulas in Negation Normal Form*. 2007.
ausgewählt für den Band “Ausgezeichnete Informatikdissertationen 2007” der Gesellschaft für Informatik (GI). (Martina Seidl ist seit September am Institut für Formale Modelle und Verifikation an der Johannes Kepler Universität in Linz tätig.)

Gutachter/Kommissionsmitglied für Dissertationen (Extern)

- Marco Sirianni, *Parallel Evaluation of ASP Programs: Techniques and Implementation*. Università degli Studi della Calabria, Rende. Februar 2012.
- Roberto Confalonieri, *The Role of Preferences in Logic Programming: Nonmonotonic Reasoning, User Preferences, Decision under Uncertainty*. Universitat Politècnica de Catalunya, Barcelona. Dezember 2011.
- Jozef Siška. *Logic Programming in Computer Games*. Comenius University, Bratislava, November 2010.

Aktuelle DissertantInnen

- Wolfgang Dvořák. Finanzierung: WWTF Projekt ICT 08-028.
- Sarah Alice Gaggl. Finanzierung: WWTF Projekt ICT 08-028.
- Michael Morak. Finanzierung: TUWIEN Projekt 9006.09/008.
- Stefan Rümmele. Finanzierung: FWF Projekt P20704.
- Johannes Wallner. Finanzierung: WWTF Projekt ICT 08-028.

Doktoratskollegs

- Mitglied der Faculty für das Doktoratskolleg “Mathematical Logic in Computer Science” an der TU Wien (Start: Herbst 2010).

Sonstige universitäre Aktivitäten

- Mitglied im Fakultätsrat der Fakultät für Informatik (TU Wien, seit 2008).
- Mitglied in Habilitationskommission (Axel Polleres, TU Wien, 2010)
- Ersatzmitglied der Berufungskommission “Computer-Aided Verification” (TU Wien, 2008).

Publikationsliste

Artikel in Zeitschriften

- [1] N. Creignou, J. Schmidt, M. Thomas und S. Woltran. Complexity of Logic-Based Argumentation in Post's Framework. *Argument & Computation*, 2(2-3):107–129, 2011.
- [2] W. Dvořák und S. Woltran. On the Intertranslatability of Argumentation Semantics. *Journal of Artificial Intelligence Research* 41:445–475, 2011.
- [3] E. Oikarinen und S. Woltran. Characterizing Strong Equivalence for Argumentation Frameworks. *Artificial Intelligence* 175(14-15): 1985–2009, 2011.
- [4] U. Egly, S. Gaggl und S. Woltran. Answer-Set Programming Encodings for Argumentation Frameworks. *Argument and Computation* 1(2): 147–177, 2010.
- [5] W. Dvořák und S. Woltran. Complexity of Semi-Stable and Stage Semantics in Argumentation Frameworks. *Information Processing Letters* 110(11):425–430, 2010.
- [6] M. Truszczyński und S. Woltran. Relativized Hyperequivalence of Logic Programs for Modular Programming. *Theory and Practice of Logic Programming* 9(6):781–819, 2009.
- [7] T. Janhunen, E. Oikarinen, H. Tompits und S. Woltran. Modularity Aspects of Disjunctive Stable Models. *Journal of Artificial Intelligence Research* 35:813–857, 2009.
- [8] D. Pearce, H. Tompits und S. Woltran. Characterising Equilibrium Logic and Nested Logic Programs: Reductions and Complexity. *Theory and Practice of Logic Programming* 9(5):565–616, 2009.
- [9] P. Besnard, A. Hunter und S. Woltran. Encoding Deductive Argumentation in Quantified Boolean Formulae. *Artificial Intelligence* 173(15):1406–1434, 2009.
- [10] U. Egly, M. Seidl und S. Woltran. A Solver for QBFs in Nonprenex Form. *Constraints Journal* 14(1):38–79, 2009.
- [11] M. Truszczyński und S. Woltran. Hyperequivalence of Logic Programs with Respect to Supported Models. *Annals of Mathematics and Artificial Intelligence* 53(1-4): 331–365, 2008.
- [12] S. Woltran. A Common View on Strong, Uniform, and Other Notions of Equivalence in Answer-Set Programming. *Theory and Practice of Logic Programming* 8(2):217–234, 2008.
- [13] T. Eiter, W. Faber, M. Fink und S. 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.
- [14] T. Eiter, M. Fink und S. Woltran. Semantical Characterizations and Complexity of Equivalences in Answer Set Programming. *ACM Transactions on Computational Logic* 8(3), 2007. (53 pages)
- [15] U. Egly, R. Pichler und S. Woltran. On Deciding Subsumption Problems. *Annals of Mathematics and Artificial Intelligence* 43(1–4):255–294, 2005.
- [16] J. Delgrande, T. Schaub, H. Tompits und S. Woltran. On Computing Solutions to Belief Change Scenarios. *Journal of Logic and Computation* 14(6):801–826, 2004.

Buchbeiträge

- [17] W. Faber und S. Woltran. Manifold Answer-Set Programs and Their Applications. In M. Balduccini and T.C. Son (eds.): *Logic Programming, Knowledge Representation, and Nonmonotonic Reasoning. Essays Dedicated to Michael Gelfond on the Occasion of His 65th Birthday*, pp. 44–63. Springer LNAI 6565, 2011.
- [18] P. Besnard, T. Schaub, H. Tompits und S. Woltran. Representing Paraconsistent Reasoning via Quantified Propositional Logic. In L. Bertossi, A. Hunter und T. Schaub (eds.): *Inconsistency Tolerance*, pp. 84–118. Springer LNCS 3300, 2005.

Beiträge in Konferenzbänden

- [19] M. Morak, N. Musliu, R. Pichler, S. Rümmele und S. Woltran. Evaluating Tree-Decomposition Based Algorithms for Answer Set Programming. *Proceedings of the 6th International Conference on Learning and Intelligent OptimizatioN (LION'12)*, to appear.
- [20] W. Dvořák, P. Dunne und S. Woltran. Parametric Properties of Ideal Semantics. *Proceedings of the 22nd International Joint Conference on Artificial Intelligence (IJCAI'11)*, pp. 851–856, IJCAI/AAAI 2011.
- [21] G. Brewka, P. Dunne und S. Woltran. Relating the Semantics of Abstract Dialectical Frameworks and Standard AFs. *Proceedings of the 22nd International Joint Conference on Artificial Intelligence (IJCAI'11)*, pp. 780–785, IJCAI/AAAI 2011.
- [22] S. Gaggl und S. Woltran. Strong Equivalence for Argumentation Semantics Based on Conflict-Free Sets. *Proceedings of the 11th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty (ECSQARU'11)*, pp. 38–49, Springer LNCS 6716, 2011.
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