

Curriculum Vitae of Johannes Peter Wallner

Address: TU Wien
Institute of Logic and Computation
Database and Artificial Intelligence Group
Favoritenstraße 9
A-1040 Vienna, Austria
Phone: +43-1-58801-18469
Fax: +43-1-58801-9-18469
E-Mail: wallner@dbai.tuwien.ac.at
Website: <http://www.jpwallner.name>
Citizenship: Austria
Birthday: 13.5.1984

Education

- 2011 – 2014 **Ph.D. study** at TU Vienna. Received degree: Dr. techn., passed with distinction (28.5.2014). Thesis: *Complexity Results and Algorithms for Argumentation - Dung's Frameworks and Beyond*. Supervisors: Univ.Prof. Dr. Stefan Woltran and Assistant Prof. Georg Weissenbacher, D.Phil.; Assistance: Dr. Wolfgang Dvořák.
- 2008 – 2010 **Master study** "Computational Intelligence" at TU Vienna. Received degree: Dipl.-Ing. (comparable to Master of Science), passed with distinction (9.12.2010). Thesis: *A Hybrid Approach for Model-Based Random Testing*. Supervisors: Univ.Prof. Dr. Franz Wotawa and Dr. Bernhard Peischl.
- 2003 – 2008 **Bachelor study** "Software & Information Engineering" at TU Vienna. Received degree: Bachelor of Science (14.2.2008).

Doctoral programme and visited summer schools

- 2011 – 2014 Participation in doctoral programme *Mathematical Logic in Computer Science* at TU Vienna.
- 02/2014 Advanced winter school on reasoning engines for rigorous system engineering, ReRISE 2014, Linz, Austria.
- 07/2013 Advanced course on AI (ACAI) 2013 summer school; student session topic: *Advanced procedures for hard problems in abstract argumentation*, London, UK.
- 06/2012 Doctoral consortium at the thirteenth conference on Principles of Knowledge Representation and Reasoning (KR) 2012. Topic: *Computational properties of abstract dialectical frameworks*, Rome, Italy.

Academic working experience

- 04/2017 – present **Principle investigator** in the Database and AI group, **TU Vienna**. Project: *Extending Belief Change to Advance Dynamics in Argumentation*. Funded by Austrian Science Fund (FWF) through project P30168.
- 01/2017 – 04/2017 **Project assistant** in the Database and AI group, **TU Vienna**. Project: *A Semantical Framework for Graph-Based Argument Processing*. Funded by Deutsche Forschungsgemeinschaft (DFG) and Austrian Science Fund (FWF) through project I2854. Project leaders: Prof. Dr. Gerhard Brewka and Univ.Prof. Dr. Stefan Woltran.
- 04/2015 – 12/2016 **Project assistant** in the Constraint Reasoning and Optimization group, Department of Computer Science / HIIT, **University of Helsinki**. Project: *Decision Procedures for the Polynomial Hierarchy, Boolean Optimization, and Model Counting*. Funded by Academy of Finland. Project leader: Adjunct Prof. Dr. Matti Järvisalo.
- 07/2014 – 04/2015 **Project assistant** in the Database and AI group, **TU Vienna**. Project: *Fragment-Driven Belief Change*. Funded by Austrian Science Fund (FWF) through project P25521. Project leader: Univ.Prof. Dr. Stefan Woltran.
- 06/2013 – 06/2014 **Project assistant** in the Database and AI group, **TU Vienna**. International project (Germany/Austria): *Abstract Dialectical Frameworks: Advanced Tools for Formal Argumentation*. Funded by Deutsche Forschungsgemeinschaft (DFG) and Austrian Science Fund (FWF) through project I1102. Project leaders: Prof. Dr. Gerhard Brewka and Univ.Prof. Dr. Stefan Woltran.
- 09/2012 – 05/2013 **Project assistant** in the Database and AI group, **TU Vienna**. Project: *SEE: SPARQL Evaluation and Extensions*. Funded by WWTF – Wiener Wissenschafts-, Forschungs- und Technologiefonds (ICT 12-015). Project leader: Univ.Prof. Dr. Reinhard Pichler.
- 05/2011 – 08/2012 **Project assistant** in the Database and AI group, **TU Vienna**. Project: *New Methods for Analyzing, Comparing, and Solving Argumentation Problems*. Funded by WWTF – Wiener Wissenschafts-, Forschungs- und Technologiefonds (ICT 08-028). Project leader: Univ.Prof. Dr. Stefan Woltran.

Other project activities

- 2012 – 2013 Project member in bilateral project Austria/Slovakia Project: *New Directions in Abstract Argumentation*. Funded by Slovenská akademická informaná agentúra (SAIA) and Österreichischer Austauschdienst (ÖAD); project number 2012-03-15-0001. Project coordinators: RNDr. Jozef Šiška, Comenius Univ. Bratislava and Univ.Prof. Dr. Stefan Woltran.

Professional activities

- Program committee member of
 - 2019: AAMAS 2019 (main track), AAAI 2019, LPNMR 2019, SAC 2019 (KRR track),
 - 2018: AAAI 2018, IJCAI 2018, KR 2018, COMMA 2018, SAFA 2018, RCRA 2018,
 - 2017: IEA/AIE 2017 (special track on Applications of Argumentation), IJCAI 2017, RCRA 2017, TAFA 2017,
 - 2016: COMMA 2016, IJCAI 2016 (main track), RCRA 2016, SAFA 2016, TAASP 2016,
 - 2015: IJCAI 2015 (KR track), and RCRA 2015.
- Reviewing (not including PC memberships) for
 - ACM Symposium on Applied Computing 2017 (KRR track), AAAI 2016, ICDT 2015, LPNMR 2015, PhDs in Logic VII, KR 2014, ESSLLI 2013, CILC 2013, LPNMR 2013, and ECAI 2012;
 - Argument & Computation (special issue 2016), Artificial Intelligence (2015, 2017, & 2018), Fundamenta Informaticae (special issues 2016 and 2018), IfCoLog Journal of Logics and their Applications (2017), International Journal of Approximate Reasoning (2015 & 2017), Knowledge and Information Systems (2017), and Theory and Practice of Logic Programming (special issue 2017).
- Co-organizer of the workshop on "New Trends in Formal Argumentation 2017", Vienna.
- Fourth ASP Competition 2013, member of organizing committee.
- Assistance in writing project proposal (co-author): *Abstract Dialectical Frameworks: Advanced Tools for Formal Argumentation*. Funded by Deutsche Forschungsgemeinschaft (DFG) and Austrian Science Fund (FWF) through project I1102 (EUR 470,000). Start: 2013.

Research visits

03/2018 Adjunct Prof. Dr. Matti Järvisalo, University of Helsinki
04 – 06/2012 Prof. Dr. Gerhard Brewka, Leipzig University

Scientific talks

- 12/09/2018 *Structural Constraints for Dynamic Operators in Abstract Argumentation.* COMMA'18
- 10/04/2018 *Strategic manipulation when merging argumentation frameworks.* AMANDE Workshop on "Argument strength"
- 17/08/2017 *From structured to abstract argumentation: assumption-based acceptance via AF reasoning.* Workshop on "New Trends of Formal Argumentation"
- 12/07/2017 *From structured to abstract argumentation: assumption-based acceptance via AF reasoning.* ECSQARU'17
- 10/04/2017 *Synthesizing Argumentation Frameworks from Examples.* Workshop on "Formal Argumentation in Online Discussions"
- 27/04/2016 *Implicit Hitting Set Algorithms for Reasoning Beyond NP.* KR'16
- 15/02/2016 *Complexity Results and Algorithms for Extension Enforcement in Abstract Argumentation.* AAI'16
- 29/07/2015 *Complexity-Sensitive Decision Procedures for Abstract Argumentation.* IJ-CAI'15
- 25/07/2015 *Abstract Solvers for Dung's Argumentation Frameworks.* TAFE'15
- 22/07/2014 *Analyzing the Computational Complexity of Abstract Dialectical Frameworks via Approximation Fixpoint Theory.* KR'14
- 16/09/2013 *Advanced SAT Techniques for Abstract Argumentation.* CLIMA'13
- 05/07/2013 *SAT-based Argumentation Systems.* Advanced Course on AI (ACAI) 2013, student session.
- 02/04/2012 *Knowledge Base Change and Abstract Dialectical Frameworks.* Dynamics of Argumentation, Rules and Conditionals (DARC) workshop
- 28/09/2011 *Making Use of Advances in Answer-Set Programming for Abstract Argumentation Systems.* INAP'11
- 23/08/2010 *A hybrid approach for model-based random testing.* VALID'10

Awards and grants

- Project funding (PI): *Extending Belief Change to Advance Dynamics in Argumentation.* Funded by Austrian Science Fund (FWF) under grant P30168-N31.
- Runner-Up Best Student Paper Award at ECAI 2016
- Honorable mention from International Competition on Computational Models of Argumentation (ICMA) 2015 for participating solver *cegartix*
- ECCAI Travel Award for attending ACAI 2013
- Grant for attending doctoral consortium at KR 2012
- Distinguished student paper prize for "Complexity-Sensitive Decision Procedures for Abstract Argumentation" at KR 2012

Teaching

Winter 2017	Course "Abstract Argumentation" at TU Vienna
Period i-ii 2016	"Seminar on Computational Social Choice" at University of Helsinki
Period i 2016	Course "Scientific Writing for MSc in Computer Science" at University of Helsinki
Period i-ii 2015	"Seminar on Tractability" at University of Helsinki
Period iv 2015	Guest lecture for "Satisfiability, Boolean Modeling and Computation" at University of Helsinki
Winter 2014	Course "Abstract Argumentation" at TU Vienna
Winter 2012	Course "Abstract Argumentation" at TU Vienna

Co-supervised master's theses

- Andreas Niskanen, *Enforcement in Abstract Argumentation via Boolean Optimization*, University of Helsinki, 2016 (2nd instructor)
- Martin Diller, *Solving Reasoning Problems on Abstract Dialectical Frameworks via Quantified Boolean Formulas*, TU Vienna, 2014
- Stefan Ellmauthaler, *Abstract Dialectical Frameworks: Properties, Complexity, and Implementation*, TU Vienna, 2012

Languages

- German
- English

Publications

Online profiles:

- Google Scholar
<https://scholar.google.at/citations?user=MNjnPt4AAAAJ&hl=en>
- DBLP
http://dblp.uni-trier.de/pers/hd/w/Wallner:Johannes_Peter

Journals

Author ordering in the following list is alphabetical, except for [j7].

- [j10] Rémi Brochenin, Thomas Linsbichler, Marco Maratea, Johannes P. Wallner, and Stefan Woltran. Abstract Solvers for Dung's Argumentation Frameworks. *Argument & Computation*, 9(1):41–72, 2018.

- [j9] Federico Cerutti, Sarah A. Gaggl, Matthias Thimm, and Johannes P. Wallner. Foundations of implementations for formal argumentation. *IfCoLog Journal of Logics and their Applications*, 4(8):2623–2705, 2017.
- [j8] Gerhard Brewka, Stefan Ellmauthaler, Hannes Strass, Johannes P. Wallner, and Stefan Woltran. Abstract dialectical frameworks. An overview. *IfCoLog Journal of Logics and their Applications*, 4(8):2263–2317, 2017.
- [j7] Johannes P. Wallner, Andreas Niskanen, and Matti Järvisalo. Complexity Results and Algorithms for Extension Enforcement in Abstract Argumentation. *Journal of Artificial Intelligence Research*, 60:1–40, 2017.
- [j6] Günther Charwat, Wolfgang Dvořák, Sarah A. Gaggl, Johannes P. Wallner, and Stefan Woltran. Methods for solving reasoning problems in abstract argumentation - a survey. *Artificial Intelligence*, 220:28–63, 2015.
- [j5] Martin Diller, Johannes P. Wallner, and Stefan Woltran. Reasoning in abstract dialectical frameworks using quantified Boolean formulas. *Argument & Computation*, 6(2):149–177, 2015.
- [j4] Sarah A. Gaggl, Norbert Manthey, Alessandro Ronca, Johannes P. Wallner, and Stefan Woltran. Improved answer-set programming encodings for abstract argumentation. *Theory and Practice of Logic Programming*, 15(4–5):434–448, 7 2015.
- [j3] Hannes Strass and Johannes P. Wallner. Analyzing the Computational Complexity of Abstract Dialectical Frameworks via Approximation Fixpoint Theory. *Artificial Intelligence*, 226:34–74, 2015.
- [j2] Wolfgang Dvořák, Matti Järvisalo, Johannes P. Wallner, and Stefan Woltran. Complexity-sensitive decision procedures for abstract argumentation. *Artificial Intelligence*, 206:53–78, 2014.
- [j1] Axel Polleres and Johannes P. Wallner. On the relation between SPARQL1.1 and answer set programming. *Journal of Applied Non-Classical Logics*, 23(1–2):159–212, 2013.

Publications in conference proceedings (peer reviewed)

Author ordering in the following list is alphabetical, except for [c26, c25, c20, c19, c18, c17, c16, c14].

- [c26] Tuomo Lehtonen, Johannes P. Wallner, and Matti Järvisalo. Reasoning over Assumption-Based Argumentation Frameworks via Direct Answer Set Programming Encodings. Accepted to AAAI'19.
- [c25] Andreas Niskanen, Johannes P. Wallner, and Matti Järvisalo. Extension Enforcement under Grounded Semantics in Abstract Argumentation. In Michael Thielscher, Francesca

Toni, and Frank Wolter, editors, *Proceedings of the 16th International Conference on Principles of Knowledge Representation and Reasoning, KR 2018*, pages 178–183, Tempe, USA, October 2018. AAAI Press.

- [c24] Johannes P. Wallner. Structural Constraints for Dynamic Operators in Abstract Argumentation. In Sanjay Modgil, Katarzyna Budzynska, and John Lawrence, editors, *Proceedings of the Seventh International Conference on Computational Models of Argument, COMMA 2018*, volume 305 of *Frontiers in Artificial Intelligence and Applications*, pages 73–84, Warsaw, Poland, September 2018. IOS Press.
- [c23] Thomas Linsbichler, Andreas Niskanen, Marco Maratea, Johannes P. Wallner, and Stefan Woltran. Novel Algorithms for Abstract Dialectical Frameworks based on Complexity Analysis of Subclasses and SAT Solving. In Jérôme Lang, editor, *Proceedings of the 27th International Joint Conference on Artificial Intelligence, IJCAI 2018*, pages 1905–1911, Stockholm, Sweden, July 2018. IJCAI.
- [c22] Adrian Haret, Johannes P. Wallner, and Stefan Woltran. Two Sides of the Same Coin: Belief Revision and Enforcing Arguments. In Jérôme Lang, editor, *Proceedings of the 27th International Joint Conference on Artificial Intelligence, IJCAI 2018*, pages 1854–1860, Stockholm, Sweden, July 2018. IJCAI.
- [c21] Gerhard Brewka, Hannes Strass, Johannes P. Wallner, and Stefan Woltran. Weighted Abstract Dialectical Frameworks. In Sheila A. McIlraith and Kilian Q. Weinberger, editors, *Proceedings of the 32nd AAAI Conference on Artificial Intelligence, AAAI 2018*, pages 1779–1786, New Orleans, Louisiana, USA, July 2018. AAAI Press.
- [c20] Tuomo Lehtonen, Johannes P. Wallner, and Matti Järvisalo. From Structured to Abstract Argumentation: Assumption-Based Acceptance via AF Reasoning. In Alessandro Antonucci, Laurence Cholvy and Odile Papini, editors, *Proceedings of the 14th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty, ECSQARU 2017*, volume 10369 of *Lecture Notes in Artificial Intelligence*, pages 57–68, Lugano, Switzerland, July 2017. Springer.
- [c19] Andreas Niskanen, Johannes P. Wallner, and Matti Järvisalo. Pakota: A System for Enforcement in Abstract Argumentation. In Loizos Michael and Antonis C. Kakas, editors, *Proceedings of the 15th European Conference on Logics in Artificial Intelligence, JELIA 2016*, volume 10021 of *Lecture Notes in Artificial Intelligence*, pages 385–400, Larnaca, Cyprus, November 2016. Springer.
- [c18] Andreas Niskanen, Johannes P. Wallner, and Matti Järvisalo. Synthesizing Argumentation Frameworks from Examples. In Gal A. Kaminka, Maria Fox, Paolo Bouquet, Eyke Hüllermeier, Virginia Dignum, Frank Dignum, and Frank van Harmelen, editors, *Proceedings of the Twenty-Second European Conference on Artificial Intelligence, ECAI 2016*, pages 551–559, The Hague, The Netherlands, August 2016. IOS Press.
- [c17] Andreas Niskanen, Johannes P. Wallner, and Matti Järvisalo. Optimal status enforcement in abstract argumentation. In Subbarao Kambhampati, editor, *Proceedings of the*

Twenty-Fifth International Joint Conference on Artificial Intelligence, IJCAI 2016, pages 1216–1222, New York, USA, July 2016. AAAI Press / International Joint Conferences on Artificial Intelligence.

- [c16] Paul Saikko, Johannes P. Wallner, and Matti Järvisalo. Implicit hitting set algorithms for reasoning beyond NP. In Chitta Baral, Jim P. Delgrande and Frank Wolter, editors, *Proceedings of the Fifteenth International Conference on Principles of Knowledge Representation and Reasoning, KR 2016*, pages 104–113, Cape Town, South Africa, April 2016. AAAI Press.
- [c15] Matthias Thimm and Johannes P. Wallner. Some complexity results on inconsistency measurement. In Chitta Baral, Jim P. Delgrande and Frank Wolter, editors, *Proceedings of the Fifteenth International Conference on Principles of Knowledge Representation and Reasoning, KR 2016*, pages 114–124, Cape Town, South Africa, April 2016. AAAI Press.
- [c14] Johannes P. Wallner, Andreas Niskanen, and Matti Järvisalo. Complexity results and algorithms for extension enforcement in abstract argumentation. In Dale Schuurmans and Michael P. Wellman, editors, *Proceedings of the Thirtieth AAAI Conference on Artificial Intelligence, AAAI 2016*, pages 1088–1094, Phoenix, Arizona, USA, February 2016. AAAI Press.
- [c13] Wolfgang Dvořák, Matti Järvisalo, Johannes P. Wallner, and Stefan Woltran. Complexity-sensitive decision procedures for abstract argumentation (extended abstract). In Qiang Yang and Michael Wooldridge, editors, *Proceedings of the Twenty-Fourth International Joint Conference on Artificial Intelligence, IJCAI 2015*, pages 4173–4177, Buenos Aires, Argentina, July 2015. AAAI Press / International Joint Conferences on Artificial Intelligence.
- [c12] Andreas Pfandler, Stefan Rümmele, Johannes P. Wallner, and Stefan Woltran. On the parameterized complexity of belief revision. In Qiang Yang and Michael Wooldridge, editors, *Proceedings of the Twenty-Fourth International Joint Conference on Artificial Intelligence, IJCAI 2015*, pages 3149–3155, Buenos Aires, Argentina, July 2015. AAAI Press / International Joint Conferences on Artificial Intelligence.
- [c11] Martin Diller, Johannes P. Wallner, and Stefan Woltran. Reasoning in abstract dialectical frameworks using quantified Boolean formulas. In Simon Parsons, Nir Oren, Chris Reed, and Federico Cerutti, editors, *Proceedings of the Fifth International Conference on Computational Models of Argument, COMMA 2014*, volume 266 of *Frontiers in Artificial Intelligence and Applications*, pages 241–252, Pitlochry, Scotland, September 2014. IOS Press.
- [c10] Hannes Strass and Johannes P. Wallner. Analyzing the computational complexity of abstract dialectical frameworks via approximation fixpoint theory. In Chitta Baral, Giuseppe De Giacomo, and Thomas Eiter, editors, *Proceedings of the 14th International Conference on Principles of Knowledge Representation and Reasoning, KR 2014*, pages 101–110, Vienna, Austria, July 2014. AAAI Press.

- [c9] Mario Alviano, Francesco Calimeri, Günther Charwat, Minh Dao-Tran, Carmine Dodaro, Giovambattista Ianni, Thomas Krennwallner, Martin Kronegger, Johannes Oetsch, Andreas Pfandler, Jörg Pührer, Christoph Redl, Francesco Ricca, Patrik Schneider, Martin Schwengerer, Lara K. Spendier, Johannes P. Wallner, and Guohui Xiao. The fourth answer set programming competition: Preliminary report. In Pedro Cabalar and Tran Cao Son, editors, *Proceedings of the Twelfth International Conference on Logic Programming and Nonmonotonic Reasoning, LPNMR 2013*, volume 8148 of *Lecture Notes in Artificial Intelligence*, pages 42–53, Corunna, Spain, September 2013. Springer.
- [c8] Thomas Ambroz, Günther Charwat, Andreas Jusits, Johannes P. Wallner, and Stefan Woltran. ARVis: Visualizing relations between answer sets. In Pedro Cabalar and Tran Cao Son, editors, *Proceedings of the Twelfth International Conference on Logic Programming and Nonmonotonic Reasoning, LPNMR 2013*, volume 8148 of *Lecture Notes in Artificial Intelligence*, pages 73–78, Corunna, Spain, September 2013. Springer.
- [c7] Günther Charwat, Giovambattista Ianni, Thomas Krennwallner, Martin Kronegger, Andreas Pfandler, Christoph Redl, Martin Schwengerer, Lara K. Spendier, Johannes P. Wallner, and Guohui Xiao. VCWC: A versioning competition workflow compiler. In Pedro Cabalar and Tran Cao Son, editors, *Proceedings of the Twelfth International Conference on Logic Programming and Nonmonotonic Reasoning, LPNMR 2013*, volume 8148 of *Lecture Notes in Artificial Intelligence*, pages 233–238, Corunna, Spain, September 2013. Springer.
- [c6] Gerhard Brewka, Stefan Ellmauthaler, Hannes Strass, Johannes P. Wallner, and Stefan Woltran. Abstract dialectical frameworks revisited. In Francesca Rossi, editor, *Proceedings of the 23rd International Joint Conference on Artificial Intelligence, IJCAI 2013*, pages 803–809, Beijing, China, August 2013. AAAI Press / IJCAI.
- [c5] Wolfgang Dvořák, Sarah A. Gaggl, Johannes P. Wallner, and Stefan Woltran. Making use of advances in answer-set programming for abstract argumentation systems. In Hans Tompits, Salvador Abreu, Johannes Oetsch, Jörg Pührer, Dietmar Seipel, Masanobu Umeda, and Armin Wolf, editors, *Proceedings of the 19th International Conference on Applications of Declarative Programming and Knowledge Management, INAP 2011, Revised Selected Papers*, volume 7773 of *Lecture Notes in Artificial Intelligence*, pages 114–133. Springer, 2013.
- [c4] Stefan Ellmauthaler and Johannes P. Wallner. Evaluating abstract dialectical frameworks with ASP. In Bart Verheij, Stefan Szeider, and Stefan Woltran, editors, *Proceedings of the Fourth International Conference on Computational Models of Argument, COMMA 2012*, volume 245 of *Frontiers in Artificial Intelligence and Applications*, pages 505–506, Vienna, Austria, September 2012. IOS Press.
- [c3] Wolfgang Dvořák, Matti Jarvisalo, Johannes P. Wallner, and Stefan Woltran. Complexity-sensitive decision procedures for abstract argumentation. In Gerhard Brewka, Thomas Eiter, and Sheila A. McIlraith, editors, *Proceedings of the 13th International Conference*

on *Principles of Knowledge Representation and Reasoning, KR 2012*, pages 54–64, Rome, Italy, June 2012. AAAI Press.

- [c2] Wolfgang Dvořák, Sarah A. Gaggl, Johannes P. Wallner, and Stefan Woltran. Making use of advances in answer-set programming for abstract argumentation systems. In Salvador Abreu, Johannes Oetsch, Jörg Pührer, Dietmar Seipel, Hans Tompits, Masanobu Umeda, and Armin Wolf, editors, *Proceedings of the 19th International Conference on Applications of Declarative Programming and Knowledge Management, INAP 2011*, pages 117–130, Vienna, Austria, September 2011.
- [c1] Stefan Mohacsi and Johannes Wallner. A hybrid approach for model-based random testing. In Lydie du Bousquet, Juho Perälä, and Pascal Lorenz, editors, *Proceedings of the Second International Conference on Advances in System Testing and Validation Lifecycle, VALID 2010*, pages 10–15, Nice, France, August 2010. IEEE.

Publications in workshop proceedings (peer reviewed)

- [w5] Adrian Haret and Johannes P. Wallner. Manipulation of Semantic Aggregation Procedures for Propositional Knowledge Bases and Argumentation Frameworks In Eduardo Fermé and Serena Villata, editors, *Proceedings of the 17th International Workshop on Non-otonic Reasoning, NMR 2018*, pages 146–155, Tempe, USA, October 2018.
- [w4] Rémi Brochenin, Thomas Linsbichler, Marco Maratea, Johannes P. Wallner, and Stefan Woltran. Abstract solvers for Dung’s argumentation frameworks. In Elizabeth Black, Sanjay Modgil, and Nir Oren, editors, *Proceedings of the Third Workshop on Theory and Applications of Formal Argumentation, TAFA 2015, Revised Selected Papers*, volume 9524 of *Lecture Notes in Artificial Intelligence*, pages 40–58, Buenos Aires, Argentina, July 2015. Springer.
- [w3] Sylwia Polberg, Johannes P. Wallner, and Stefan Woltran. Admissibility in the abstract dialectical framework. In João Leite, Tran Cao Son, Paolo Torroni, Leon van der Torre, and Stefan Woltran, editors, *Proceedings of the 14th International Workshop on Computational Logic in Multi-Agent Systems, CLIMA 2013*, volume 8143 of *Lecture Notes in Artificial Intelligence*, pages 102–118, Corunna, Spain, September 2013. Springer.
- [w2] Johannes P. Wallner, Georg Weissenbacher, and Stefan Woltran. Advanced SAT techniques for abstract argumentation. In João Leite, Tran Cao Son, Paolo Torroni, Leon van der Torre, and Stefan Woltran, editors, *Proceedings of the 14th International Workshop on Computational Logic in Multi-Agent Systems, CLIMA 2013*, volume 8143 of *Lecture Notes in Artificial Intelligence*, pages 138–154, Corunna, Spain, September 2013. Springer.
- [w1] Günther Charwat, Johannes P. Wallner, and Stefan Woltran. Utilizing asp for generating and visualizing argumentation frameworks. In Michael Fink and Yuliya Lierler, editors, *Proceedings of the Fifth Workshop on Answer Set Programming and Other Computing Paradigms, ASPOCP 2012*, pages 51–65, Budapest, Hungary, September 2012.

Contributions in books

- [b3] Federico Cerutti, Sarah A. Gaggl, Matthias Thimm, and Johannes P. Wallner. Foundations of Implementations for Formal Argumentation. In Pietro Baroni, Dov Gabbay, Massimiliano Giacomin, and Leon van der Torre, editors, *Handbook of Formal Argumentation*, chapter 14, pages 688-767. College Publications, 2018.
- [b2] Gerhard Brewka, Stefan Ellmauthaler, Hannes Strass, Johannes P. Wallner, and Stefan Woltran. Abstract Dialectical Frameworks. In Pietro Baroni, Dov Gabbay, Massimiliano Giacomin, and Leon van der Torre, editors, *Handbook of Formal Argumentation*, chapter 5, pages 237–285. College Publications, 2018.
- [b1] Wolfgang Dvořák, Sarah A. Gaggl, Thomas Linsbichler, and Johannes P. Wallner. Reduction-based Approaches to Implement Modgil’s Extended Argumentation Frameworks. In Thomas Eiter, Hannes Strass, Mirosław Truszczyński, and Stefan Woltran, editors, *Advances in Knowledge Representation, Logic Programming, and Abstract Argumentation. Essays Dedicated to Gerhard Brewka on the Occasion of His 60th Birthday*, volume 9060 of *Lecture Notes in Artificial Intelligence*, pages 249–264. Springer, 2015.

Thesis

- [a1] Johannes P. Wallner. *Complexity Results and Algorithms for Argumentation - Dung’s Frameworks and Beyond*. PhD thesis, TU Vienna, Institute of Information Systems, 2014.

Technical reports

- [t6] Sylwia Polberg and Johannes P. Wallner. Preliminary Report on Complexity Analysis of Extension-Based Semantics of Abstract Dialectical Frameworks. Technical Report DBAI-TR-2017-103, Technische Universität Wien, 2017.
- [t5] Sarah A. Gaggl, Norbert Manthey, Alessandro Ronca, Johannes P. Wallner, and Stefan Woltran. Improved Answer-Set Programming Encodings for Abstract Argumentation. Technical Report DBAI-TR-2015-93, Technische Universität Wien, 2015.
- [t4] Günther Charwat, Wolfgang Dvořák, Sarah A. Gaggl, Johannes P. Wallner, and Stefan Woltran. Implementing Abstract Argumentation - A Survey. Technical Report DBAI-TR-2013-82, Technische Universität Wien, 2013.
- [t3] Axel Polleres and Johannes P. Wallner. On the relation between SPARQL1.1 and Answer Set Programming. Technical Report DBAI-TR-2013-84, Technische Universität Wien, 2013.
- [t2] Hannes Strass and Johannes P. Wallner. Analyzing the Computational Complexity of Abstract Dialectical Frameworks via Approximation Fixpoint Theory. Technical Report 2, Computer Science Institute, Leipzig University, 2013.

- [t1] Wolfgang Dvořák, Sarah A. Gaggl, Johannes P. Wallner, and Stefan Woltran. Making Use of Advances in Answer-Set Programming for Abstract Argumentation Systems. Technical Report DBAI-TR-2011-70, Technische Universität Wien, 2011.

Miscellaneous

- [m1] Wolfgang Dvořák, Matti Järvisalo, Johannes P. Wallner, and Stefan Woltran. CEGARTIX: A SAT-Based Argumentation System. Presented at the Pragmatics of SAT Workshop (PoS 2012) <http://www.dbai.tuwien.ac.at/research/project/argumentation/papers/DvorakJWW2012PoS.pdf>, 2012.

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