

# Curriculum Vitae of Johannes Peter Wallner

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## Education

- 2024 **Habilitation** (venia docendi) in Theoretical Computer Science, Graz University of Technology. Thesis: *Computational Aspects of Formal Argumentation*.
- 2011 – 2014 **Ph.D. study** at TU Wien. Received degree: Dr. techn., passed with distinction (28.5.2014). Thesis: *Complexity Results and Algorithms for Argumentation - Dung's Frameworks and Beyond*. Supervisors: Prof. Dr. Stefan Woltran and Assoc. Prof. Georg Weissenbacher, D.Phil.; Assistance: Dr. Wolfgang Dvořák.
- 2008 – 2010 **Master study** "Computational Intelligence" at TU Wien. 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: Prof. Dr. Franz Wotawa and Dr. Bernhard Peischl.
- 2003 – 2008 **Bachelor study** "Software & Information Engineering" at TU Wien. Received degree: Bachelor of Science (14.2.2008).

## Doctoral programme, visited summer schools, and certificate

- 2011 – 2014 Participation in doctoral programme *Mathematical Logic in Computer Science* at TU Wien.
- 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.
- 2010 ISTQB certified tester (foundation level).

## Academic working experience

- 06/2021 – present **Assistant professor** in the Institute of Software Technology, **TU Graz**.
- 12/2020 – 05/2021 **University assistant** in the Institute of Software Technology, **TU Graz**.
- 04/2017 – 2021 **Principle investigator** in the Database and AI group, **TU Wien**.  
Project: *Extending Belief Change to Advance Dynamics in Argumentation*. Funded by Austrian Science Fund (FWF) through project P30168.  
<http://www.dbai.tuwien.ac.at/proj/embarg/>
- 01/2017 – 04/2017 **Project assistant** in the Database and AI group, **TU Wien**. 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 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: Assoc. Prof. Dr. Matti Järvisalo.
- 07/2014 – 04/2015 **Project assistant** in the Database and AI group, **TU Wien**. Project: *Fragment-Driven Belief Change*. Funded by Austrian Science Fund (FWF) through project P25521. Project leader: Prof. Dr. Stefan Woltran.
- 06/2013 – 06/2014 **Project assistant** in the Database and AI group, **TU Wien**. 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 Prof. Dr. Stefan Woltran.
- 09/2012 – 05/2013 **Project assistant** in the Database and AI group, **TU Wien**. Project: *SEE: SPARQL Evaluation and Extensions*. Funded by WWTF – Wiener Wissenschafts-, Forschungs- und Technologiefonds (ICT 12-015). Project leader: Prof. Dr. Reinhard Pichler.
- 05/2011 – 08/2012 **Project assistant** in the Database and AI group, **TU Wien**. Project: *New Methods for Analyzing, Comparing, and Solving Argumentation Problems*. Funded by WWTF – Wiener Wissenschafts-, Forschungs- und Technologiefonds (ICT 08-028). Project leader: 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 Prof. Dr. Stefan Woltran.

## Professional activities

### Reviewing activities

- Member of the Program Committee Board of IJCAI (2022–2024).
- Senior program committee member (SPC) of IJCAI 2021.
- Program committee member (PC) of **AAAI** (2018-2021, 2023), **IJCAI** (2015-2023), **KR** (2018, 2020, 2021, & 2022), and **COMMA** (2016, 2018, 2020, & 2022). In details, I was on the PC of
  - 2024: AAAI, IJCAI, ECAI, SAC, PADL, ArgXAI,
  - 2023: AAAI, IJCAI, KR, ECAI, JELIA, SAC, ASPOCP, RCRA, FCR,
  - 2022: IJCAI, KR, UAI, COMMA, LPNMR, SAC (KRR track), ASPOCP, ArgXAI, RCRA, FCR,
  - 2021: AAAI, UAI, KR, SAC (KRR track), ASPOCP,
  - 2020: AAAI, IJCAI, KR, ECAI, COMMA, SAC (KRR track), STAIRS, ASPOCP, SAFA,
  - 2019: AAAI, IJCAI, AAMAS (main track), LPNMR, SAC (KRR track), RCRA, ASPOCP,
  - 2018: AAAI, IJCAI, KR, COMMA, SAFA, RCRA,
  - 2017: IJCAI, IEA/AIE (track Applications of Argumentation), RCRA, TAFA,
  - 2016: IJCAI (main track), COMMA, RCRA, SAFA, TAASP,
  - 2015: IJCAI (KR track), and RCRA.
- Reviewing for journals:
  - AI Communications (2019)
  - Argument & Computation (special issues in 2016 & 2019, and 2022),
  - Artificial Intelligence (2015, 2017, 2019, 2021, & 2022),
  - Journal of Artificial Intelligence Research (2019, 2020, & 2021),
  - Journal of Heuristics (2021),
  - Journal of Logic and Computation (2020),
  - Fundamenta Informaticae (special issues in 2016 and 2018),
  - IfCoLog Journal of Logics and their Applications (2017),
  - International Journal of Approximate Reasoning (2015, 2017, 2019, & 2023),
  - Knowledge and Information Systems (2017), and
  - Theory and Practice of Logic Programming (special issues in 2017, 2019, 2021, & 2023).

- Member of the editorial board of Argument and Computation.
- Further reviewing activities (e.g., sub reviewer for conferences):
  - IEA/AIE 2019, 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.

### Organization activities

- Co-Chair of the Doctoral Consortium at KR 2024.
- Member of IJCAI 2022 local organization team (part of workshop and tutorial coordination).
- Co-organizer of the workshop on "Recent Advances in Collaborative and Argumentative Decision-Making", Vienna.
- Co-organizer of the SAFA 2022 workshop, Cardiff.
- Co-organizer of the workshop on "New Trends in Formal Argumentation 2017", Vienna.
- Fourth ASP Competition 2013, member of organizing committee.

### Further activities and memberships

- Member of appointment committee ("Berufungskommission") for Data Management at TU Graz.
- Member of the International Competition on Computational Models of Argumentation (ICMA) steering committee (role: vice president)
- AAAI 2020 Student Abstract and Poster Program, program committee member.
- Member of the Austrian Society for Artificial Intelligence (ASAI).
- Vienna Center for Logic and Algorithms (VCLA) Award Committee member for student awards 2019, 2020, 2021.
- 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.

### Research visits

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

## Scientific talks

- 08/09/2023 *Argumentation Frameworks induced by Assumption-based Argumentation: Relating Size and Complexity.* KR'23
- 06/03/2023 *Manipulating Skeptical and Credulous Consequences when Merging Beliefs.* Talk at the Vienna-Graz workshop on Computational Social Choice 2023
- 15/12/2022 *Computation in Structured Argumentation: to Instantiate or not to Instantiate?* invited talk at Oberseminar of the Artificial Intelligence Group at FernUniversität Hagen
- 14/09/2022 *Strongly Accepting Subframeworks: Connecting Abstract and Structured Argumentation.* COMMA'22
- 23/05/2022 *Existential Abstraction on Argumentation Frameworks via Clustering.* NAVAS workshop on Navigation Approaches for Answer Sets 2022
- 12/11/2021 *Existential Abstraction on Argumentation Frameworks via Clustering.* KR'21
- 11/09/2020 *Computing Strongly Admissible Sets.* COMMA'20
- 30/04/2019 *Reasoning over Assumption-Based Argumentation Frameworks via Direct Answer Set Programming Encodings.* Second workshop on "New Trends of Formal Argumentation"
- 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): *A Novel Computational Workflow for Argumentation in AI*. Funded by Austrian Science Fund (FWF) under grant P 35632.
- Project funding (PI): *Extending Belief Change to Advance Dynamics in Argumentation*. Funded by Austrian Science Fund (FWF) under grant P30168-N31.
- IJCAI 2019 Distinguished Program Committee member, "Discussion Master" award for ECAI 2023.
- Runner-Up Best Student Paper Award at ECAI 2016
- Honorable mention from International Competition on Computational Models of Argumentation (ICCMA) 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

Summer 2024	Course "Basics in Artificial Intelligence and Logic" at TU Graz
Winter 2023	Course "Logic-based Knowledge Representation" at TU Graz
Winter 2023	temporary replacement for "Grundlagen der Informatik" at FH Campus02 and FH Joanneum
Summer 2023	Course "Basics in Artificial Intelligence and Logic" at TU Graz
Winter 2022	Course "Logic-based Knowledge Representation" at TU Graz
Winter 2022	temporary replacement for "Grundlagen der Informatik" at FH Campus02 and FH Joanneum
Summer 2022	Course "Basics in Artificial Intelligence and Logic" at TU Graz
Summer 2021	Course "Basics in Artificial Intelligence and Logic" at TU Graz
Winter 2020	Course "Data Base Systems" at TU Wien
Winter 2019	Course "Abstract Argumentation" at TU Wien
Winter 2018	Course "Abstract Argumentation" at TU Wien
Winter 2017	Course "Abstract Argumentation" at TU Wien
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 Wien
Winter 2012	Course "Abstract Argumentation" at TU Wien

## Co-supervised PhD thesis

- Tuomo Lehtonen, *Computational Approaches to Reasoning in Structured Argumentation*, University of Helsinki, 2023

## Co-supervised master's theses

- Mathias Hofer, *Towards Parallel Algorithms for Abstract Dialectical Frameworks*, TU Wien, 2022
- Tuomo Lehtonen, *Reasoning over Assumption-Based Argumentation Frameworks via Answer Set Programming*, University of Helsinki, 2019 (2nd instructor)
- 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 Wien, 2014
- Stefan Ellmauthaler, *Abstract Dialectical Frameworks: Properties, Complexity, and Implementation*, TU Wien, 2012

## Languages

- German
- English

## Publications

**Publication summary** Wallner's publication record includes 45 peer-reviewed publications in proceedings of conferences (among these six papers in **IJCAI**, ten papers in **KR**, and seven papers in **AAAI**), seventeen publications in international journals (e.g. five in **Artificial Intelligence** and three in the **Journal of Artificial Intelligence Research**), four contributions to books (e.g. in the **Handbook of Formal Argumentation**), and nine publications in peer-reviewed proceedings of workshops. Topic-wise, Wallner published on diverse fields in, or related to, knowledge representation and reasoning within AI: formal argumentation, belief change, inconsistency measures, computational social choice, satisfiability solving, answer set programming, and abduction, and has worked on algorithms, computational complexity, formal foundations, and implementations for formal models in KR. Google scholar citation metrics for Wallner's profile shows 1684 citations, an h-index of 20, and an i10-index of 37 (as of July 27, 2023).

Online profiles are available at:

- Google Scholar  
<https://scholar.google.at/citations?user=MNjnPt4AAAAJ&hl=en>

- DBLP

[http://dblp.uni-trier.de/pers/hd/w/Wallner:Johannes\\_Peter](http://dblp.uni-trier.de/pers/hd/w/Wallner:Johannes_Peter)

## Journals

Author ordering in the following list is alphabetical, except for [j16, j14, j12, j7].

- [j17] Thomas Linsbichler, Andreas Niskanen, Marco Maratea, Johannes P. Wallner, and Stefan Woltran. Advanced Algorithms for Abstract Dialectical Frameworks based on Complexity Analysis of Subclasses and SAT Solving. *Artificial Intelligence*, 307:103697, 2022.
- [j16] Tuomo Lehtonen, Johannes P. Wallner, and Matti Järvisalo. Harnessing Incremental Answer Set Solving for Reasoning in Assumption-Based Argumentation. *Theory and Practice of Logic Programming*, 21(6):717–734, 2021.
- [j15] Ringo Baumann, Sylvie Doutre, Jean-Guy Mailly, and Johannes P. Wallner. Enforcement in Formal Argumentation. *Journal of Applied Logics - IfCoLog Journal of Logics and their Applications*, 8(6):1623–1677, 2021.
- [j14] Tuomo Lehtonen, Johannes P. Wallner, and Matti Järvisalo. Declarative Algorithms and Complexity Results for Assumption-Based Argumentation. *Journal of Artificial Intelligence Research*, 71:265–318, 2021.
- [j13] Johannes P. Wallner. Structural Constraints for Dynamic Operators in Abstract Argumentation. *Argument & Computation*, 11(1-2):151–190, 2020.
- [j12] Andreas Niskanen, Johannes P. Wallner, and Matti Järvisalo. Synthesizing Argumentation Frameworks from Examples. *Journal of Artificial Intelligence Research*, 66:503–554, 2019.
- [j11] Matthias Thimm and Johannes P. Wallner. On the complexity of inconsistency measurement. *Artificial Intelligence*, 275:411–456, 2019.
- [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 [c42, c41, c38, c31, c26, c25, c20, c19, c18, c17, c16, c14].*

- [c45] Iosif Apostolakis, Zeynep G. Saribatur, and Johannes P. Wallner. Abstracting Assumptions in Structured Argumentation. Accepted as extended abstract to AAMAS’24.
- [c44] Andrei Popescu and Johannes P. Wallner. Reasoning in Assumption-based Argumentation using Tree-decompositions. In Sarah Gaggl, Vanina Martinez, and Magdalena Ortiz, editors, *Proceedings of the 18th European Conference on Logics in Artificial Intelligence, JELIA 2023*, volume 14281 of *Lecture Notes in Computer Science* pages 192–208, Dresden, Germany, 2023. Springer.
- [c43] Tuomo Lehtonen, Anna Rapberger, Markus Ulbricht, and Johannes P. Wallner. Argumentation Frameworks induced by Assumption-based Argumentation: Relating Size and Complexity. In Pierre Marquis, Tran Cao Son, and Gabriele Kern-Isberner, editors, *Proceedings of the 20th International Conference on Principles of Knowledge Representation and Reasoning, KR 2023*, pages 440–450, 2023. IJCAI.
- [c42] Daphne Odekerken, Tuomo Lehtonen, AnneMarie Borg, Johannes P. Wallner, and Matti Järvisalo. Argumentative Reasoning in ASPIC+ under Incomplete Information. In Pierre

Marquis, Tran Cao Son, and Gabriele Kern-Isberner, editors, *Proceedings of the 20th International Conference on Principles of Knowledge Representation and Reasoning, KR 2023*, pages 531–541, 2023. IJCAI.

- [c41] Tuomo Lehtonen, Johannes P. Wallner, and Matti Järvisalo. Algorithms for Reasoning in a Default Logic Instantiation of Assumption-Based Argumentation. In Francesca Toni, Sylwia Polberg, Richard Booth, Martin Caminada, and Hiroyuki Kido, editors, *Proceedings of the Ninth International Conference on Computational Models of Argument, COMMA 2022*, volume 353 of *Frontiers in Artificial Intelligence and Applications* pages 236–247, 2022. IOS Press.
- [c40] Markus Ulbricht and Johannes P. Wallner. Strongly Accepting Subframeworks: Connecting Abstract and Structured Argumentation. In Francesca Toni, Sylwia Polberg, Richard Booth, Martin Caminada, and Hiroyuki Kido, editors, *Proceedings of the Ninth International Conference on Computational Models of Argument, COMMA 2022*, volume 353 of *Frontiers in Artificial Intelligence and Applications* pages 320–331, 2022. IOS Press.
- [c39] Stefan Ellmauthaler, Sarah A. Gaggl, Dominik Rusovac, and Johannes P. Wallner. Representing Abstract Dialectical Frameworks with Binary Decision Diagrams. In Georg Gottlob, Daniela Inclezan, Marco Maratea, editors, *Proceedings of the 16th International Conference on Logic Programming and Non-monotonic Reasoning, LPNMR 2022*, volume 13416 of *Lecture Notes in Computer Science* pages 177–189, Genova Nervi, Italy, September 2022. Springer.
- [c38] Tuomo Lehtonen, Johannes P. Wallner, and Matti Järvisalo. Computing Stable Conclusions under the Weakest-Link Principle in the ASPIC+ Argumentation Formalism. In Gabriele Kern-Isberner, Gerhard Lakemeyer, and Thomas Meyer, editors, *Proceedings of the 19th International Conference on Principles of Knowledge Representation and Reasoning, KR 2022*, pages 215–225, 2022. IJCAI.
- [c37] Adrian Haret and Johannes P. Wallner. An Axiomatic Approach to Revising Preferences. *Proceedings of the 36th AAI Conference on Artificial Intelligence, AAI 2022*, pages 5676–5683. AAI Press.
- [c36] Zeynep G. Saribatur and Johannes P. Wallner. Existential Abstraction on Argumentation Frameworks via Clustering. In Meghyn Bienvenu, Gerhard Lakemeyer, and Esra Erdem, editors, *Proceedings of the 18th International Conference on Principles of Knowledge Representation and Reasoning, KR 2021*, pages 549–559, 2021. IJCAI.
- [c35] Jan Maly and Johannes P. Wallner. Ranking Sets of Defeasible Elements in Preferential Approaches to Structured Argumentation: Postulates, Relations, and Characterizations. *Proceedings of the 35th AAI Conference on Artificial Intelligence, AAI 2021*, pages 6435–6443. AAI Press.
- [c34] Markus Ulbricht and Johannes P. Wallner. Strong Explanations in Abstract Argumentation. *Proceedings of the 35th AAI Conference on Artificial Intelligence, AAI 2021*, pages 6496–6504. AAI Press.

- [c33] Wolfgang Dvořák and Johannes P. Wallner. Computing Strongly Admissible Sets. In Henry Prakken, Stefano Bistarelli, Francesco Santini, and Carlo Taticchi, editors, *Proceedings of the Eighth International Conference on Computational Models of Argument, COMMA 2020*, volume 326 of *Frontiers in Artificial Intelligence and Applications* pages 179–190, 2020. IOS Press.
- [c32] Wolfgang Dvořák, Sarah A. Gaggl, Anna Rapberger, Johannes P. Wallner, and Stefan Woltran. The ASPARTIX system suite. In Henry Prakken, Stefano Bistarelli, Francesco Santini, and Carlo Taticchi, editors, *Proceedings of the Eighth International Conference on Computational Models of Argument, COMMA 2020*, volume 326 of *Frontiers in Artificial Intelligence and Applications* pages 461–462, 2020. IOS Press.
- [c31] Tuomo Lehtonen, Johannes P. Wallner, and Matti Järvisalo. An Answer Set Programming Approach to Argumentative Reasoning in the ASPIC<sup>+</sup> Framework. In Diego Calvanese, Esra Erdem, and Michael Thielscher, editors, *Proceedings of the 17th International Conference on Principles of Knowledge Representation and Reasoning, KR 2020*, pages 636–646, 2020. IJCAI.
- [c30] Zeynep G. Saribatur, Johannes P. Wallner, and Stefan Woltran. Explaining Non-Acceptability in Abstract Argumentation. In Giuseppe De Giacomo, Alejandro Catala, Bistra Dilkina, Michela Milano, Senén Barro, Alberto Bugarín, Jérôme Lang, editors, *Proceedings of the 24th European Conference on Artificial Intelligence, ECAI 2020*, volume 325 of *Frontiers in Artificial Intelligence and Applications* pages 881–888, 2020. IOS Press.
- [c29] Dvořák, Anna Rapberger, Johannes P. Wallner, and Stefan Woltran. ASPARTIX-V19 - An Answer-set Programming based System for Abstract Argumentation. In Andreas Herzig and Juha Kontinen, editors, *Proceedings of the Eleventh International Symposium on Foundations of Information and Knowledge Systems, FoIKS 2020*, volume 12012 of *Lecture Notes in Computer Science* pages 79–89, Dortmund, Germany, February 2020. Springer.
- [c28] Adrian Haret, Martin Lackner, Andreas Pfandler, and Johannes P. Wallner. Proportional Belief Merging. In *Proceedings of the 34th AAAI Conference on Artificial Intelligence, AAAI 2020*, pages 2822–2829, New York, USA, February 2020. AAAI Press.
- [c27] Adrian Haret and Johannes P. Wallner. Manipulating Skeptical and Credulous Consequences when Merging Beliefs. In Francesco Calimeri, Nicola Leone, and Marco Manna, editors, *Proceedings of the 16th European Conference on Logics in Artificial Intelligence, JELIA 2019*, volume 11468 of *Lecture Notes in Computer Science*, pages 133–150, Rende, Italy, May 2019. Springer.
- [c26] Tuomo Lehtonen, Johannes P. Wallner, and Matti Järvisalo. Reasoning over Assumption-Based Argumentation Frameworks via Direct Answer Set Programming Encodings. In Pascal Van Hentenryck and Zhi-Hua Zhou, editors, *Proceedings of the 33rd AAAI Conference on Artificial Intelligence, AAAI 2019*, pages 2938–2945, Honolulu, Hawaii, USA, January 2019. AAAI Press.

- [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, February 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.

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