Yuliya Lierler

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RESEARCH INTERESTS

Artificial intelligence, especially in the area of computational methods for knowledge representation, reasoning, declarative problem solving, and natural language processing. She is a founder of the Knowledge Representation and Natural Language Processing Lab at the University of Nebraska Omaha: http://cist.unomaha.edu/nlpkr/

EDUCATION

2006-2010	Ph.D. in Computer Sciences University of Texas at Austin Dissertation: "SAT-based Answer Set Programming" Advisor: Dr. Vladimir Lifschitz
2000-2003	M.S. in Computer Sciences University of Texas at Austin
1999-2000	B.S. in Computer Sciences University of Texas at Austin Honors Thesis: "Experiments with Answer Set Solvers" Advisor: Dr. Vladimir Lifschitz
1996-1999	Computer Science Program Belarusian State University of Informatics and Radioelectronics

RESEARCH EXPERIENCE

9/2018-present	Associate Professor University of Nebraska Omaha, Department of Computer Science
9/2020-8/2023	Cheryl Prewett Diamond Professor University of Nebraska Omaha
8/2012-8/2018	Assistant Professor University of Nebraska Omaha, Department of Computer Science
8/2010-7/2012	Computing Innovation Fellow Postdoc University of Kentucky, Department of Computer Science Mentor: Dr. Miroslaw Truszczynski
5/2006-2/2010	Research Assistant University of Texas at Austin, Department of Computer Science Supervisor: Dr. Vladimir Lifschitz
9/2003-4/2006	Visiting Researcher <i>Erlangen-Nuremberg University, Germany</i> , Department of Computer Science Supervisor: Dr. Günter Görz

5/2003-7/2003	Visiting Researcher <i>University of Genoa, Italy</i> , Department of Computer Science Supervisor: Dr. Enrico Giunchiglia
5/2002-9/2002	Visiting Researcher <i>Freiburg University, Germany</i> , Department of Computer Science Supervisor: Dr. Bernhard Nebel
9/2000-5/2003	Research Assistant <i>University of Texas at Austin</i> , Department of Computer Science Supervisor: Dr. Vladimir Lifschitz

TEACHING EXPERIENCE

2012-present	Course Instructor University of Nebraska Omaha, Department of Computer Science
	Introduction to Artificial Intelligence
	• Introduction to Artificial Intelligence (online version, compliant with the Digital Learn- ing standard)
	Natural Language Processing
	 Advanced Topics in Natural Language Understanding
	Advanced Topics in Artificial Intelligence
	Theoretical Foundations of Computer Science
2005	Course Instructor
	Erlangen Nuremberg University, Germany, Department of Computer Science
	Computational Syntax and Semantics
2006-2010	Teaching Assistant
	University of Texas at Austin, Department of Computer Science
2014	Courses: Data Management, Abstract Data Types, Introduction to Mathematical Logic
2014-present	Advising Thesis
	Nicholas Wilson Master's Project on Maturing and Extending The EZSMT System 2022
	Adrian Dorsey, Master's Project on <i>Extending Text2ALM with New Relations and Explanations by XClingo</i> , 2021
	Nicholas Hippen, Master's Thesis on Grounding Size Prediction for Answer Set Pro- grams, 2019
	Craig Olson, Master's Thesis on Processing Narratives by Means of Action Languages, 2019
	Gang Ling, From Narrative Text to Formal Action Language System Descriptions, 2018
	Benjamin Susman, Master's Thesis on <i>The EZSMT Solver: Constraint Answer Set Solving meets SMT</i> , 2016
	Graduate research
	Keeran Dhakal: EZSMT 3.0 Revamped, 2023-present
	Zachary Hansen: Correctness in Constraint Answer Set Programming, 2020-present
	Justin Robbins: Lazy Grounding via MultiShot Solving, 2019-2020
	Joseph Meyer: Interpreter for Action Language H, 2019
	Brian Hodges: Lazy Grounding in Answer Set Programming, 2018-2019
	Dan Bailey: Prepositional Phrase Attachment and How Knowledge can Help, 2014

Undergraduate research

	Josh Gryzen: What do LLMs mean for bAbI, 2023-present
	Daniel Bresnahan: ASP Rewriting Tool LPOPT Enhanced by Predictor, 2020
	Da Shen: SMT-based Constraint Answer Set Solvers for Nontight Programs, 2016-2017
	Nick Richman: Constraint Answer Set Solving via Minizinc, 2016
	Maeghan Fry: Knowledge-Based Linguistic Reasoning, 2016
	Joshua Irvin: Rewriting Techniques to Improve Performance in Answer Set Program- ming, 2015-2016
	Matt Buddenhagen: Performance Tuning in Answer Set Programming, 2015
	Dissertation Committee Member or Opponent or Evaluator
	Francesco Pacenza: <i>Reasoning in Highly Dynamic Environments</i> , Calabria University, Italy, 2021
	Jori Bomanson: Normalization and Rewriting for Answer Set Programming and Opti- mization, Aalto University, Finland, 2020
	Sriram Srinivasan: Scalable Algorithms for Updating Large-Scale Dynamic Networks, University of Nebraska Omaha, 2020
	Jose M. Santos: <i>Physiologically-Aware Architecture for Fidelity-Preserving Transmission of Biomedical Signals in Body Area Sensor Networks and IoT</i> , University of Nebraska Lincoln, 2020
	Ayan Dutta: Configuration Formation Planning and Adaptive Locomotion Learning in Modular Self-reconfigurable Robots, University of Nebraska Omaha, 2017
2015	Mentorship Robert Woodward, Preparing Future Faculty Program

INDUSTRIAL EXPERIENCE

5/2007-8/2007	Software Engineer <i>IBM</i> , WBI System Performance
5/2001-8/2001	Software Engineer <i>Verizon</i> , Information Technology

JOURNAL PUBLICATIONS

1	Yu. Lierler, G. Ling, C. Olson, Information Extraction Tool TEXT2ALM: From Narra- tives to Action Language System Descriptions and Query Answering, <i>AI communications</i> , 2024
2	Yu. Lierler, An Abstract View on Optimizations in Propositional Frameworks , Annals of Mathematics and Artificial Intelligence, 2023
3	Yu. Lierler, Unifying Framework for Optimizations in Non-boolean Formalisms, <i>Theory and Practice of Logic Programming</i> , vol. 23 (6), 2023, 1248–80, doi:10.1017/S1471068422000400
4	J. Fandinno, Z. Hansen, Yu. Lierler, V. Lifschitz, N. Temple, External Behavior of a Logic Program and Verification of Refactoring , <i>Theory and Practice of Logic Programming</i> , 2023, 1-15, doi:10.1017/S1471068423000200
5	D. Bresnahan, N. Hippen, Yu. Lierler, System Predictor: Grounding Size Estimator for Logic Programs under Answer Set Semantics , <i>Theory and Practice of Logic Programming</i> , vol. 24 (1), 2023, 132–56 doi:10.1017/S1471068423000078

6	Yu. Lierler, Constraint Answer Set Programming: Integration and SMT-based Approaches, <i>Theory and Practice of Logic Programming</i> , volume 23, number 1, 2023, 195-225
7	Yu. Lierler, Strong Equivalence and Program Structure in Arguing Essential Equiva- lence between Logic Programs , <i>Theory and Practice of Logic Programming</i> , volume 22, number 3, 2022, 335-366
8	P. Cabalar, J. Fandinno, and Yu. Lierler, Modular Answer Set Programming as a Formal Specification Language , <i>Theory and Practice of Logic Programming</i> , volume 20, number 5, 2020, 767-782
9	Yu. Lierler, What is Answer Set Programming to Propositional Satisfiability , <i>Constraints</i> , volume 22, July 2017, 307-337
10	Yu. Lierler and B. Susman, On Relation between Constraint Answer Set Programming and Satisfiability Modulo Theories , <i>Theory and Practice of Logic Programming</i> , volume 17, July 2017, 559-590
11	M. Balduccini and Yu. Lierler, Constraint Answer Set Solver EZCSP and Why Integra- tion Schemas Matter , <i>Theory and Practice of Logic Programming</i> , volume 17, July 2017, 462-515
12	A. Harrison and Yu. Lierler, First-Order Modular Logic Programs and their Conservative Extensions (Best Student Paper Award) <i>Theory and Practice of Logic Programming</i> , volume 16, number 5-6, August 2016, 755-760
13	Yu. Lierler, M. Maratea, and F. Ricca, Systems, Engineering Environments, and Competitions <i>AI Magazine</i> , volume 37, number 3, Fall 2016, 45-52
14	Yu. Lierler and M. Truszczynski, On Abstract Modular Inference Systems and Solvers , <i>Artificial Intelligence</i> volume 236, July 2016, 65-89
15	R. Brochenin, Yu. Lierler, and M. Maratea, Disjunctive Answer Set Solvers via Templates <i>Theory and Practice of Logic Programming</i> , volume FirstView, December 2015, 1-33
16	Yu. Lierler, Relating Constraint Answer Set Programming Languages and Algorithms , <i>Artificial Intelligence</i> , volume 207, February 2014, 1-22
17	P. Ferraris, J. Lee, Yu. Lierler, V. Lifschitz, and F. Yang, Representing First-Order Causal Theories by Logic Programs , <i>Theory and Practice of Logic Programming</i> , volume 12, 2012, 383-412
18	Yu. Lierler and M. Truszczynski, Transition Systems for Model Generators — A Unifying Approach, <i>Theory and Practice of Logic Programming</i> , 27th Int'l. Conference on Logic Programming (ICLP'11) Special Issue, volume 11 (4-5), 2011, 629-646
19	Yu. Lierler, Abstract Answer Set Solvers with Backjumping and Learning, <i>Theory and Practice of Logic Programming</i> , Special Issue, volume 11 (2-3), 2011, 135-169
20	M. Gebser, J. Lee, Yu. Lierler, On Elementary Loops of Logic Programs , <i>Theory and Practice of Logic Programming</i> , volume 11 (6), 2011, 953-988
21	E. Giunchiglia, Yu. Lierler, and M. Maratea, Answer Set Programming based on Propo- sitional Satisfiability, <i>Automated Reasoning</i> , volume 36, April 2006, 345-377

CONFERENCE PUBLICATIONS

1	J. Fandinno and Yu. Lierler, Splitting Answer Set Programs with respect to Intensionality Statements , <i>37th AAAI Conference on Artificial Intelligence (AAAI)</i> , 2023
2	J. Fandinno, Z. Hansen, and Yu. Lierler, Axiomatization of Aggregates in Answer Set Programming, 36th AAAI Conference on Artificial Intelligence (AAAI), 2022
3	L. Liu, M. Truszczynski, and Yu. Lierler, A Machine Learning System to Improve the Performance of ASP Solving Based on Encoding Selection , 16th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR), 2022
4	Z. Hansen and Yu. Lierler, Semantics for Conditional Literals via the SM Operator, 16th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR), 2022
5	J. Fandinno, Z. Hansen, and Yu. Lierler, Arguing Correctness of ASP Programs with Aggregates, 16th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR), 2022
6	Yu. Lierler, An Abstract View on Optimizations in SAT and ASP, 17th edition of the European Conference on Logics in Artificial Intelligence (JELIA), 2021
7	J. Robbins, Yu. Lierler, DualGrounder: Lazy instantiation via Clingo multi-shot frame- work , 17th edition of the European Conference on Logics in Artificial Intelligence (JELIA), 2021
8	N. Hippen, Yu. Lierler, Estimating Grounding Sizes of Logic Programs under Answer Set Semantics and System Predictor, 17th edition of the European Conference on Logics in Artificial Intelligence (JELIA), 2021
9	Yu. Lierler and C. Olson, An Architecture of Semantic Information Extraction Tool Text2ALM, 10th International Scientific and Technical Conference "Open Semantic Technologies for Intelligent Systems", 2020
10	C. Olson and Yu. Lierler, Information Extraction Tool Text2Alm: From Narratives to Ac- tion Language System Descriptions , 35th International Conference on Logic Programming (ICLP) Technical Communications, 2019
11	N. Hippen and Yu. Lierler, Automatic Program Rewriting in Non-Ground Answer Set Programs, Practical Aspects of Declarative Languages (PADL), 2019
12	Yu. Lierler, Strong Equivalence and Program's Structure in Arguing Essential Equiva- lence Between First-Order Logic Programs, Practical Aspects of Declarative Languages (PADL), 2019
13	D. Shen and Yu. Lierler, SMT-Based Answer Set Solver CMODELS(DIFF) (System Description), International Conference on Logic Programming (ICLP), Technical Communications, 2018
14	D. Shen and Yu. Lierler, SMT-Based Constraint Answer Set Solver EZSMT+ for Non-Tight Programs , International Conference on Principles of Knowledge Representation and Reasoning (KR), 2018
15	A Harrison and Yu. Lierler, First-Order Modular Logic Programs and their Conservative Extensions (Extended Abstract) , 27th International Joint Conference on Artificial Intelli- gence (IJCAI), 2017
16	Yu. Lierler, D. Inclezan and M. Gelfond, Action Languages and Question Answering 12th International Conference on Computational Semantics (IWCS), 2017

17	B. De Cat and Yu. Lierler, Constraint CNF: a SAT and CSP Language Under One Roof , <i>32nd International Conference on Logic Programming (ICLP)</i> , 2016
18	B. Susman and Yu. Lierler, SMT-based Constraint Answer Set Solver EZSMT (System Description) , 32nd International Conference on Logic Programming (ICLP), 2016
19	Yu. Lierler and B. Susman, Constraint Answer Set Programming versus Satisfiability Modulo Theories, 25th International Joint Conference on Artificial Intelligence (IJCAI), 2016
20	M. Buddenhagen and Yu. Lierler, Performance Tuning in Answer Set Programming , 13th International Conference on Logic Programming and Nonmonotonic Reasoning (LP-NMR), 2015
21	D. Bailey, Yu. Lierler, and B. Susman, Prepositional Phrase Attachment Problem Revis- ited: How VERBNET Can Help , <i>11th International Conference on Computational Semantics</i> (<i>IWCS</i>), 2015
22	Yu. Lierler and M. Truszczynski, An Abstract View on Modularity in Knowledge Representation, 29th AAAI Conference on Artificial Intelligence (AAAI-15), 2015
23	R. Brochenin, Yu. Lierler, and M. Maratea, Abstract Disjunctive Answer Set Solvers, 21st European Conference on Artificial Intelligence (ECAI), 2014
24	Yu. Lierler and M. Truszczynski, Abstract Modular Inference Systems and Solvers, <i>Practical Aspects of Declarative Languages (PADL)</i> , 2014, 49-64
25	M. Balduccini and Yu. Lierler, Integration Schemas for Constraint Answer Set Program- ming: a Case Study (technical communication) , <i>Theory and Practice of Logic Program-</i> <i>ming, On-line Supplement, 29th International Conference on Logic Programming (ICLP)</i> 2013
26	Yu. Lierler and V. Lifschitz, Logic Programs vs. First-Order Formulas in Textual Infer- ence, 10th International Conference on Computational Semantics (IWCS), 2013, 340-346
27	Yu. Lierler and P. Schueller, Towards a Tight Integration of Syntactic Parsing with Se- mantic Disambiguation by means of Declarative Programming, 10th International Con- ference on Computational Semantics (IWCS), 2013, 383-389
28	Yu. Lierler and M. Truszczynski, Modular Answer Set Solving , 27th AAAI Conference on Artificial Intelligence (AAAI-13), 2013, 244-249
29	M. Balduccini, Yu. Lierler, and P. Schueller, Prolog and ASP Inference Under One Roof , <i>12th International Conference on Logic Programming and Nonmonotonic Reasoning</i> , 2013, 148-160
30	M. Denecker, Yu. Lierler, M. Truszczynski, and J. Vennekens, A Tarskian Informal Seman- tics for Answer Set Programming, 28th International Conference on Logic Programming (ICLP), 2012, 277-289
31	B. Silverthorn, Yu. Lierler, and M. Schneider, Surviving Solver Sensitivity: An ASP Practi- tioner's Guide , 28th International Conference on Logic Programming (ICLP), 2012, 164-175
32	Yu. Lierler, On the Relation of Constraint Answer Set Programming Languages and Algorithms, 26th AAAI Conference (AAAI), 2012
33	Yu. Lierler, S. Smith, M. Truszczynski, and A. Westlund, Weighted Sequence Problem: ASP vs CASP and Declarative vs Problem Oriented Solving, <i>Practical Aspects of Declarative Languages (PADL)</i> , 2012, 63-77
34	M. Balduccini and Yu. Lierler, Practical and Methodological Aspects of the Use of Cutting-Edge ASP Tools , <i>Practical Aspects of Declarative Languages (PADL)</i> , 2012, 78-92

35	Yu. Lierler and V. Lifschitz, Termination of Grounding is not Preserved by Strongly Equivalent Transformations , 11th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR), 2011, 205-210
36	Yu. Lierler and V. Lifschitz, One More Decidable Class of Finitely Ground Programs , 25th International Conference on Logic Programming (ICLP), 2009, 489-493
37	Yu. Lierler, Abstract Answer Set Solvers, 24th International Conference on Logic Program- ming (ICLP), 2008, 377-391
38	M. Gebser, Yu. Lierler, and J. Lee, Head-Elementary-Set-Free Logic Programs , 9th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR), 2007, 149-161
39	M. Gebser, Yu. Lierler, and J. Lee, Elementary Sets for Logic Programs, 21st National Conference on Artificial Intelligence (AAAI), 2006, 244-249
40	Yu. Lierler and G. Görz, Model Generation for Generalized Quantifiers via Answer Set Programming, 8th Conference on Natural Language Processing KONVENS, 2006, 101-106
41	Yu. Lierler, Cmodels – SAT-Based Disjunctive Answer Set Solver, 8th International Con- ference on Logic Programming and Nonmonotonic Reasoning (LPNMR), 2005, 447-451
42	A. Armando, L. Compagna, and Yu. Lierler, Automatic Compilation of Protocol Insecu- rity Problems into Logic Programming , <i>9th European Conference on Logics in Artificial</i> <i>Intelligence (JELIA)</i> , 2004, 617-627
43	B. Nebel and Yu. Lierler, When Are Behavior Networks Well-Behaved?, 16th European Conference on Artificial Intelligence (ECAI), 2004, 672-676
44	E. Giunchiglia, Yu. Lierler, and M. Maratea, SAT-Based Answer Set Programming , 19th National Conference on Artificial Intelligence (AAAI), 2004, 61-66
45	Yu. Lierler and M. Maratea, Cmodels-2: SAT-based Answer Set Solver Enhanced to Non- tight Programs, 7th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR), 2004, 346-350

BOOK CHAPTERS AND INVITED CONTRIBUTIONS

1	Yu. Lierler and P. Schueller AspCcgTk: Towards Syntactic Parsing with Semantic Dis- ambiguation , <i>ALP newsletter featured article</i> , 2014
2	Yu. Lierler, Role of KR in Natural Language Understanding and Synergic KR , <i>NSF Workshop: Research Challenges and Opportunities in Knowledge Representation</i> , 2013
3	Yu. Lierler and P. Schueller, Parsing Combinatory Categorial Grammar via Planning in Answer Set Programming , Correct Reasoning: Essays on Logic-Based AI in Honour of Vladimir Lifschitz (Lecture Notes in Computer Science / Theoretical Computer Science and General Issues), Springer, 2012, 436-453
4	Yu. Lierler, Constraint Answer Set Programming, ALP newsletter featured article, 2012
5	M. Balduccini, C. Baral, and Yu. Lierler, Knowledge Representation and Question An- swering , <i>The Handbook of Knowledge Representation</i> , Foundations of Artificial Intelligence, 2008, 779-820
6	Yu. Lierler and M. Maratea, Cmodels: SAT-based Answer Set Programming System , <i>ALP newsletter featured article</i> , 2007

1	Yu. Lierler, Optimizations in SAT and ASP via an Abstract Lens , 27th RCRA International Workshop on <i>Experimental Evaluation of Algorithms for Solving Problems with Combinato-</i> <i>rial Explosion</i> (RCRA), 2020
2	N. Hippen and Yu. Lierler, Estimating Grounding Sizes of Logic Programs under Answer Set Semantics , 27th RCRA International Workshop on <i>Experimental Evaluation of Algo-</i> <i>rithms for Solving Problems with Combinatorial Explosion</i> (RCRA), 2020
3	Yu. Lierler and B. Susman, Constraint Answer Set Programming versus Satisfiability Modulo Theories Or Constraints versus Theories, Workshop on Grounding, Transforming, and Modularizing Theories with Variables, 2015
4	D. Bailey, A. Harrison, Yu. Lierler, V. Lifschitz, and J. Michael, The Winograd Schema Challenge and Reasoning about Correlation , <i>AAAI Symposium on Logical Formalizations</i> <i>of Commonsense Reasoning</i> , 2015
5	Yu. Lierler and M. Truszczynski, Abstract Modular Systems and Solvers, Workshop on Answer Set Programming and Other Computing paradigms (ASPOCP'13), 2013
6	M. Balduccini and Yu. Lierler, Hybrid Automated Reasoning Tools: from Black-box to Clear-box Integration, Workshop on Answer Set programming and Other Computing Paradigms (ASPOCP'13), 2013
7	M. Denecker, Yu. Lierler, M. Truszczynski, and J. Vennekens, A Tarskian Informal Se- mantics for Answer Set Programming, 14th International Workshop on Non-Monotonic Reasoning, 2012
8	Yu. Lierler and P. Schueller, Parsing Combinatory Categorial Grammar with Answer Set Programming: Preliminary Report , 25th Workshop on Logic Programming (WLP), 2011
9	Yu. Lierler and Yu. Zhang, A Transition System for AC Language Algorithms, 4th Work- shop on Answer Set Programming and Other Computing Paradigms (ASPOCP), 2011
10	Yu. Lierler, S. Smith, M. Truszczynski, and A. Westlund, Weighted Sequence Problem: ASP vs CASP, Declarative vs Problem Oriented Solving, 4th Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP), 2011
11	M. Balduccini and Yu. Lierler, ASP-Based Problem Solving with Cutting-Edge Tools , 4th Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP), 2011
12	J. Lee, Yu. Lierler, V. Lifschitz, and F. Yang, Representing Synonymity in Causal Logic and in Logic Programming, 13th International Workshop on Non-Monotonic Reasoning (NMR): Declarative Programming and Systems Sub-Workshop, 2010
13	E. Giunchiglia, Yu. Lierler, M. Maratea, and A. Tacchella, Experiments with SAT-based Answer Set Programming , <i>1st Workshop on Search and Logic: Answer Set Programming</i> <i>and SAT (LaSh06)</i> , 2006
14	Yu. Lierler, Disjunctive Answer Set Programming via Satisfiability , 3rd International Workshop on Answer Set Programming, 2005
15	Yu. Lierler, Cmodels for Tight Disjunctive Logic Programs , 19th Workshop on (Constraint) Logic Programming, W(C)LP, 2005
16	E. Giunchiglia, Yu. Lierler, and M. Maratea, A SAT-based Polynomial Space Algorithm for Answer Set Programming, 10th International Workshop on Non-Monotonic Reasoning (NMR), 2004

17	Yu. Lierler and M. Maratea, Computing Answer Sets of a Logic Program via-enumeration of SAT certificates, 2nd International Workshop on Answer Set Programming, 2003
18	Bernhard Nebel and Yu. Lierler, Goal-Converging Behavior Networks and Self-Solving Planning Domains, <i>IJCAI-03 Workshop on Agents in Real-time and Dynamic Environments</i> , 2003
19	Yu. Lierler, E. Erdem, and V. Lifschitz, Fages' Theorem and Answer Set Programming, 8th International Workshop on Non-Monotonic Reasoning (NMR), 2000

EDITORIAL CONTRIBUTIONS

1	Yu. Lierler, J. F. Morales: Introduction to the 38th International Conference on Logic Programming Special Issue. Theory Pract. Log. Program. 22(4): 499-504, 2022
2	Yu. Lierler, J. F. Morales: Introduction to the 38th International Conference on Logic Programming Special Issue II. Theory Pract. Log. Program. 22(5): 640, 2022
3	Yu. Lierler, J. F. Morales, C. Dodaro, V. Dahl, M. Gebser, T. Tekle: Proceedings 38th In- ternational Conference on Logic Programming, ICLP 2022 Technical Communications / Doctoral Consortium , Haifa, Israel, 31st July 2022 - 6th August 2022. EPTCS 364, 2022
4	M. Balduccini, Yu. Lierler, S. Woltran: Preface. Theory Pract. Log. Program. 21(3): 293-295, 2021
5	M. Balduccini, Yu. Lierler, S. Woltran: Logic Programming and Nonmonotonic Reasoning - 15th International Conference, LPNMR 2019, Philadelphia, PA, USA, June 3-7, 2019, Proceedings. Lecture Notes in Computer Science 11481, Springer 2019
6	Yu. Lierler, W. Taha: Practical Aspects of Declarative Languages - 19th International Symposium , PADL 2017, Paris, France, January 16-17, 2017, Proceedings. Lecture Notes in Computer Science 10137, Springer 2017
7	M. De Vos, Th. Eiter, Yu. Lierler, F. Toni: Proceedings of the Technical Communications of the 31st International Conference on Logic Programming (ICLP 2015), Cork, Ireland, August 31 - September 4, 2015. CEUR Workshop Proceedings 1433, CEUR-WS.org 2015
8	E. Erdem, J. Lee, Yu. Lierler, D. Pearce: Correct Reasoning - Essays on Logic-Based AI in Honour of Vladimir Lifschitz . Lecture Notes in Computer Science 7265, Springer 2012

GRANTS

2024	Keeran Dhakal, Yu. Lierler, EZSMTv3.0 Development and Benchmarking, UNO's Office of Research and Creative Activity: the GRACA grant, \$5,000
2023	Josh Gryzen, Yu. Lierler, Evaluating Open-Source Large Language Models on bAbI- Tasks , <i>UNO's Office of Research and Creative Activity</i> : the Fund for Undergraduate Scholarly Experiences grant, \$2,500
2022	PI: Yu. Lierler, Student Travel Grant for Thirty Eighth International Conference on Logic Programming and Doctoral Consortium, National Science Foundation (NSF), \$10,000
2021-2023	PI: Yu. Lierler, CoPI: J. Fandinno, On the Way to Correctness in Constraint Answer Set Programming , <i>Research Development Program</i> , Office of Research and Creative Activity, UNO, \$86,000
2019-2023	PI: Yu. Lierler, CoPI: M. Truszczynski, Automated Optimization of Programs and Processing Tools in Answer Set Programming, <i>REU Supplement, National Science Foundation</i> (<i>NSF</i>), \$39,000

2017-2023	PI: Yu. Lierler, CoPI: M. Truszczynski, Automated Optimization of Programs and Processing Tools in Answer Set Programming, National Science Foundation (NSF), \$500,000
2019	PIs: M. Balduccini, Yu. Lierler, S. Woltran, Student Travel Grant for Fifteenth Interna- tional Conference on Logic Programming and Nonmonotonic Reasoning and Doctoral Consortium, <i>National Science Foundation (NSF)</i> \$10,000
2017	Da Shen, Yu. Lierler, SMT-based Constraint Answer Set Solvers for Nontight Programs , <i>UNO's Office of Research and Creative Activity</i> : the Fund for Undergraduate Scholarly Experiences grant, \$2,500
2016	Yu. Lierler, Constraint Answer Set Solver EZCSP meets Minizinc, UNO's Office of Research and Creative Activity: UCRCA Award, \$5,000
2016	M. Fry, Yu. Lierler, Knowledge-based Linguistic Reasoning , <i>UNO's Office of Research and Creative Activity</i> : the Fund for Undergraduate Scholarly Experiences grant, \$2,500
2016	J. Irvin, Yu. Lierler, Rewriting Techniques to Improve Performance in Answer Set Pro- gramming , <i>UNO's Office of Research and Creative Activity</i> : the Fund for Undergraduate Scholarly Experiences grant, \$2,500
2013-2014	Yu. Lierler, Semantic-based Natural Language Processing , <i>UNO's Office of Research and Creative Activity</i> : the Fund for Investing in the Research Enterprise grant, \$20,000
2013-2014	Yu. Lierler, Advances in Declarative Programming , <i>UNO's Office of Research and Creative Activity</i> : the Faculty Research International grant, \$4,000
2010-2012	Yu. Lierler, PI: Miroslaw Truszczynski, Constraint Answer Set Programming , <i>National Science Foundation (NSF)</i> : CRA CIFellowship program, \$220,000

PROFESSIONAL ACTIVITIES

2011-present	 Chairing Program Chair 38th International Conference on Logic Programming (ICLP), 2022 15th International Conference on Logic Programming and Nonmonotonic Reasoning (LP-NMR), 2019 19th International Symposium on Practical Aspects of Declarative Languages (PADL), 2017 11th ICLP Doctoral Consortium, 30th International Conference on Logic Programming, 2015 6th Workshop on Answer Set Programming and Other Computing Paradigms, 2013 5th Workshop on Answer Set Programming and Other Computing Paradigms, 2012
	Specialized Initiatives Workshop Chair, 13th International Conference on Logic Programming and Non-Monotonic Reasoning, 2015 Publicity Chair, 27th International Conference on Logic Programming (ICLP), 2011
	 University of Nebraska Omaha Initiatives Speech Center Ambassador, Task Force Chair, AY 23/24 Speech Workshop, Workshop Organizer, 2023 UNO/KETV Interview: AI and its role at UNO, Interviewee, 2023 Seminars on Answer Set Programming, Zoom-based International Action Group, University of Nebraska Omaha, AY 21/22 9th Annual Computer Science Workshop, 2019 Beyond Grace Hopper Panel: Women in IT, University of Nebraska Omaha, 2015 Beyond Grace Hopper Panel: Women in IT, University of Nebraska Omaha, 2014
2020-present	Executive Committee Association for Logic Programming (ALP), Board member

2012-present	University Committees (University of Nebraska Omaha, Department of Computer Science) Chairing Graduate Program Committee, 2018-2020 Faculty Search Committee, 2019-2020 Doctoral Program AI Concentration, 2021-present
	MemberAdvisory CommitteeAI Advisory CommitteeAd Hoc Committee on Grant Funding for In-load Research TimeDoctoral Program CommitteeGraduate Program CommitteeFaculty Search CommitteeExceptional Performance Review CommitteeRPT CommitteeAcademic Planning CommitteePersonnel CommitteeAd-Hoc Chaired Professorship Committee
2012, 2016, 2019	Tutorials Philadelphi Logic Week: <i>Processing Narratives by Means of Action Languages</i> 32nd International Conference on Logic Programming: <i>Relating Constraint Answer Set Pro- gramming and Satisfiability Modulo Theories</i> 26th AAAI Conference: <i>Theory and Practice of Answer Set Programming</i> (co-organized with E. Erdem and J. Lee)
2012-present	 Editor Theory and Practice of Logic Programming Journal, Constraints Area Editor, 2024-present Association for Logic programming (ALP) Newsletter, KR & Non-monotonic Reasoning Area (co-editor with M. Balduccini), 2016-2017 Technical Communications of the 31st International Conference on Logic Programming, CEUR Proceedings 2015 (co-editor with M. De Vos, T. Eiter, and F. Toni) Correct Reasoning: Essays on Logic-Based AI in Honour of Vladimir Lifschitz, Lecture Notes in Computer Science / Theoretical Computer Science and General Issues, Springer 2012 (co- editor with E. Erdem, J. Lee, and D. Pearce)
2005-present	 Program Committees 20th International Conference on Principles of Knowledge Representation and Reasoning (KR) (Main Track, Recently Published Research), 2023 36th AAAI Conference on Artificial Intelligence (AAAI), 2022 30th International Joint Conference on Artificial Intelligence (IJCAI), 2021 (senior program committee member) 29th International Joint Conference on Artificial Intelligence (IJCAI), 2020 (senior program committee member) 16th Reasoning Web Summer School (RW), 2020 (scientific advisory board) 17th International Conference on Principles of Knowledge Representation and Reasoning (KR), 2020 24th European Conference on Artificial Intelligence (ECAI), 2020 25th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence (ICLP), 2018 34th International Conference on Logic Programming and Non-Monotonic Reasoning (LP-NMR), 2017 Doctoral Consortium at the 14th International Conference on Logic Programming and Non-Monotonic Reasoning (DC-LPNMR), 2017 30th AAAI Conference on Artificial Intelligence (AAAI), 2016

	 15th International Conference on Principles of Knowledge Representation and Reasoning (KR), 2016 IJCAI KnowProS Workshop, 2016 23rd RCRA International Workshop on "Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion", 2016 2nd Workshop on Natural Language Processing and Automated Reasoning, 2015 8th Workshop on Answer Set Programming and Other Computing Paradigms, 2015 13th International Conference on Logic Programming and Non-Monotonic Reasoning, 2015 28th AAAI Conference on Artificial Intelligence (AAAI), 2014 14th International Conference on the Principles of Knowledge Representation and Reasoning (KR), 2014 16th International Symposium on Practical Aspects of Declarative Languages (PADL), 2014 27th AAAI Conference on Artificial Intelligence (AAAI), 2013 29th International Conference on Logic Programming (ICLP), 2013 1st Workshop on Natural Language Processing and Automated Reasoning, 2015 28th International Conference on Logic Programming (ICLP), 2013 1st Workshop on Natural Language Processing and Automated Reasoning, 2013 13th International Conference on Logic Programming (ICLP), 2012 28th International Conference on Logic Programming (ICLP), 2011 27th International Conference on Artificial Intelligence (IJCAI), 2011 27th International Conference on Artificial Intelligence (IJCAI), 2011 27th International Conference on Artificial Intelligence (IJCAI), 2011 27th International Conference on Logic Programming (ICLP), 2011 37th International Conference on Logic Programming (ICLP), 2011 37th International Conference on Logic Programming (ICLP), 2011 37th International Conference on Supposition, 2011 47th Workshop on Answer Set Programming and Other Computing Paradigms, 2011 18t Workshop on Grounding and Transformations for Theories with Variables (GTTV),
2005-present	Reviewing Artificial Intelligence Journal; AI Communications; Theory and Practice of Logic Program- ming Journal; Algorithms Journal; Annals of Math and Artificial Intelligence; Journal of Ar- tificial Intelligence Research; Journal of Logic and Computation; 11th and 12th International Conference on Principles of Knowledge Representation and Reasoning (KR); Fundamenta Informaticae; 9th International Symposium on Logical Formalizations of Commonsense Rea- soning; 10th International Conference on Logic Programming and Nonmonotonic Reasoning; 24th AAAI
2019, 2023	National Science Foundation Panelist, CISE Directorate
2006-2011	Editorial Assistant ACM Transactions on Computational Logic

INVITED TALKS

5/2024	Verification of Refactoring in Answer Set Programming <i>Keynote Speaker, the 17th International Symposium on Functional and Logic Programming</i> <i>(FLOPS)</i> , Kumamoto, Japan, 2024
1/2021	What SMT solving can do for Constraint Answer Set Programming Invited Speaker, 23rd International Symposium on Practical Aspects of Declarative Lan- guages (PADL), Online, 2021
1/2020	What is Constraint Answer Set Programming to Satisfiability Modulo Theories Computer Science Colloquium, Iowa State University, USA

11/2019	Answer Set Programming and Automatic Optimization Methods in its Realm Computer Science Colloquium, Iowa State University, USA
9/2019	System PROJECTOR: An Automatic Program Rewriting Tool for Non-Ground Answer Set Programs Invited Speaker, 35th International Conference on Logic Programming, Las Cruses, New Mexico, USA
6/2019	Processing Narratives by Means of Action Languages <i>Invited Tutorial, Philadelphia Logic Week</i> , USA
1/2019	Automatic Program Rewriting in Non-Ground Answer Set Programs Computer Science Colloquium, La Coruna University, Spain
11/2018, 11/2019	What's Next? The Benefits of a Computer Science Graduate Degree from UNO Computer Science Colloquium, Creighton University, USA Computer Science Colloquium, St. Ambrose University, USA ACM Chapter Colloquium, University of Nebraska Omaha
10/2018	SMT-based Constraint Answer Set Solver EZSMT, Midwest Verification Day (MVD), University of Iowa, USA
7/2016	Constraint Answer Set Programming via Satisfiability Modulo Theories Computer Science Colloquium, University of Potsdam, Germany
1/2015	On Prepositional Phrase Attachment and Selectional Restrictions <i>Computer Science Colloquium</i> , IHS, Belarus
6/2014	Integral Syntactic-Semantic Parsing Computer Science Colloquium, Catholic University Leuven (KU Leuven), Belgium
3/2014	Constraint Answer Set Programming Overview Computer Science Colloquium, University of Iowa Computer Science Colloquium, Catholic University Leuven (KU Leuven), Belgium
2/2013	Answer Set Programming for a Tight Integration of Syntactic Parsing with Semantic Disambiguation <i>CSE Colloquium Series</i> , University of Nebraska-Lincoln <i>Computer Science Colloquium</i> , Erlangen-Nuremberg University, Germany
3/2012	Parsing Combinatory Categorial Grammar via Planning in Answer Set Programming <i>Forum for Artificial Intelligence</i> , University of Texas at Austin <i>Computer Science Colloquium</i> , University of Cincinnati, USA
4/2011	Discourse Representation Theory <i>Invited Lecture</i> , University of Texas at Austin
3/2011	Answer Set Programming via Examples Invited Lecture, University of Texas at Austin
11/2010	Abstract SAT, ASP, and PC(ID) Solvers Computer Science Colloquium, Texas Tech University
10/2010	Transition Systems for Describing Combinatorial Search Procedures <i>Computer Science Colloquium</i> , University of Kentucky
1/2008	Relational Nouns <i>TAG Workshop</i> , University of Texas at Austin

5/2007	Problem of Recognizing Textual Entailment <i>Computer Science Colloquium</i> , Leipzig University, Germany <i>Computer Science Colloquium</i> , Potsdam University, Germany
4/2005	Cmodels-3: SAT-based Disjunctive Answer Set Programming System Seminar: Nonmonotonic Reasoning, Answer Set Programming and Constraints, Schloss Dagstuhl, Germany
7/2003	Cmodels: an Answer Set Solver Based on Satisfiability <i>Computer Science Colloquium</i> , University of Milan, Italy <i>Computer Science Colloquium</i> , University of Genoa, Italy
9/2002	Cmodels: a Program for Computing Models of Completion Seminar: Nonmonotonic Reasoning, Answer Set Programming and Constraints, Schloss Dagstuhl, Germany

HONORS, AWARDS, AND SCHOLARSHIPS

2020-present	Cheryl Prewett Diamond Professorship, University of Nebraska Omaha
2016	First-Order Modular Logic Programs and their Conservative Extensions (with Amelia Harri- son) Best Student Paper Award
	32nd International Conference on Logic Programming
2013	EZCSP Third Place, Model&Solve Track
	12th International Conference on Logic Programming and Nonmonotonic Reasoning (LP- NMR): Fourth Answer Set Programming Competition
2009	CMODELS Second Place, Decision Problems in NP - Single System Team
	10th International Conference on Logic Programming and Nonmonotonic Reasoning (LP- NMR): Second Answer Set Programming Competition
2007	CMODELS Second Place, Score (Solver, Core language) Category Disjunctive Programs Third Place, SCore Category
	9th International Conference on Logic Programming and Nonmonotonic Reasoning (LP-NMR): First Answer Set Programming Competition
2004	16th European Summer School in Logic, Language, and Information Scholarship
2002	DAAD Spatial Cognition Priority Program Scholarship, German Academic Exchange Service
2001	DAAD Hi-Tech in Old Munich Scholarship, German Academic Exchange Service
2000	Dean's Excellence Award, College of Natural Sciences, University of Texas at Austin
2000	Honor for Successful Scientific Work, Russian Association of Artificial Intelligence

LANGUAGES

English	Fluent
Russian	Native
Belarusian	Native
German	Fluent