Son Cao Tran / Tran Cao Son

Department of Computer Science
New Mexico State University
Box 30001, MSC CS
Las Cruces, NM 88003, USA

Phone: *(575)-646-1930*
Email: `tson@cs.nmsu.edu`
`http://www.cs.nmsu.edu/~tson`

Education

- *Ph.D in Computer Engineering*, May 2000,
  Computer Science Department, University of Texas at El Paso (UTEP), Texas, USA.
  Dissertation: "Reasoning about Sensing Actions and its Applications to Diagnostic Problem Solving" (Awarded "Outstanding Dissertation" UTEP, April 2001).

- *M.Sc. in Computer Science*, December 1993, Asian Institute of Technology (AIT), Bangkok, Thailand. **Thesis**: "Argument-Based Analysis of Non-Monotonic Inheritance Networks".

- *M.Sc. in Mathematics* (Diplom Mathematiker), July 1986, Technical University of Dresden, Germany. **Thesis**: "Implementation of nondeterministic word-functions" (*in German*).

Research Interests

- *Logic Programming*: foundational issues in logic programming; answer set programming; implementation of answer set programming systems; and nonmonotonic reasoning.

- *Knowledge Representation and Reasoning*: knowledge representation and reasoning; semantic web; preferences; and argumentation.

- *Reasoning about Action and Change*: Representing and reasoning about actions; approximation based reasoning; incomplete information; and planning and scheduling.

- *Multi-agent systems*: foundational issues in formalizing multi-agent systems; negotiation; multi-agent planning; and reasoning about multi-agent systems.

- *AI-Applications*: development of planning and answer set programming applications in planning, multi-agent systems, bio-informatics, and accessibility systems.

Professional Experience

- *Tenured-track position:*

  - **Fall 2017 – now.** *Department Head*, Computer Science Department, New Mexico State University.
  - **Fall 2010 – now.** *Professor*, Computer Science Department, New Mexico State University.
  - **Fall 2006 – Fall 2010.** *Associate Professor*, Computer Science Department, New Mexico State University.

- **Spring 2001 – Spring 2006.** *Assistant Professor*, Computer Science Department, New Mexico State University.

- *Visiting position:*

  - **Summer 2011 and Summer 2012.** *Visiting Computer Scientist*, Artificial Intelligence Center, SRI International, Menlo Park, California, USA
  - **Summer 2009.** *Guest-Professor in Cognitive Science*, Computer Science Department, Potsdam University, Germany.
  - **Summer 2008.** *Japan Society For The Promotion Of Science (JSPS) Fellow*, Computer Science Department, Wakayama University, Japan.
  - **Spring 2008.** *Visiting Professor*, Arizona State University.
  - **Summer 2006.** *Visiting Professor*, Intelligent Systems Laboratory, School of Computing and Mathematics, University of Western Sydney.
  - **Summer 2001.** *Visiting Assistant Professor*, Knowledge System Laboratory, Stanford University.
  - **March 2000 – December 2000.** *Postdoctoral Fellow*, Knowledge System Laboratory, Stanford University.
  - **January 2000 – February 2000.** *Faculty Research Associate*, Computer Science and Engineering Department, Arizona State University.

Awards And Honors

- Invited speaker at the19th International Workshop on Non-Monotonic Reasoning, Hanoi, Vietnam 2021.

- Invited speaker at the14th International Conference on Logic Programming and Non-Monotonic Reasoning, Espoo, Finland 2017.

- Invited speaker at the 8th Hybrid Reasoning for Intelligent Systems, TU Dresden, Germany 2016.

- Best Student Paper Award for the paper "On Computing Conformant Plans Using Classical Planners: A Generate-And-Complete Approach", the 22nd International Conference on Automated Planning and Scheduling will take place in Atibaia, Sao Paulo Brazil, June 25-29, 2012.

- Recipient of the "*Arts and Sciences Outstanding Achievement Awards for Research,*" 2011.

- Best Planner Award in the "Uncertainty Part of the 6th International Planning Competition 2008 (IPPC)," International Conference on Automated Planning and Scheduling (ICAPS), 2008, Sydney, Australia.

- Recipient of the "*College of Art and Sciences Faculty Outstanding Achievement Award for 2006/2007*".

- Recipient of the "*Junior Faculty/Staff Award*," fourth annual *University Council Award for Exceptional Achievements in Creative Scholarly Activity*, New Mexico State University, 2004.

- Best Paper Award, for the paper "Towards the Creation of Accessibility Agents for Non-visual Navigation of the Web (A Progress Report)," ACM Conference on Universal Accessibility, British Columbia, Canada, 2003.

- Best Paper Award, for the paper "Extending ConGolog to allow partial ordering," Sixth International Workshop on Agent Theories, Architectures, and Languages, (ATAL-99), 1999.

- Outstanding Dissertation Award, University of Texas at El Paso, 2001.

- The Outstanding International Graduate Student Award, University of Texas at El Paso, 1998.

- First place in the event "Tidy Up" in the robot competition at the National Conference of Artificial Intelligent 1997 (Advisory Member).

- Third place in the event "Schedule a Meeting" in the robot competition at the National Conference of Artificial Intelligent 1996 (Team Leader).

GRANTS AND CONTRACTS

- *PI* "RI: Small: Collaborative Research: Preference Elicitation and Device Scheduling for Smart Homes," NSF, $ 198,798.00, 08/2018–07/2021.

- *PI*, "A Study of Hybrid Discrete-Continuous-Probabilistic Modeling Techniques for Trustworthiness in Cyber-Physical Systems", $49,161.00, NIST via Saint Joseph's University, 09/2019-08/2020

- *PI*, "Towards Explainable Behavior of 'Black-Box' Autonomous Systems," $49,161.00, NIST via Saint Joseph's University, 09/2020-08/2021.

- *PI*, "Development of a Nearly Autonomous Management and Control System for Advanced Reactors," Department of Energy, $ 382,179.00, 10/2018–02/2021.

- *PI*, "Training Graduate Students for Research & Teaching Careers in AI and Cyber-Security," Department of Education, $ 563,254.00, 10/2018–09/2021.

- *PI*, "Student Support for 2019 International Conference on Logic Programming," NSF, $10,000, 08/2019-03/2020.

- *Co-PI* (PI: Huiping Cao) "REU Site: BIGDatA - Big Data Analytics for Cyber-physical Systems," $ 404,571, 03/2020–02/2023.

- *Senior Personnel*, (PI: E. Pontelli) "CREST: Interdisciplinary Center for Research Excellence in Design of Intelligent Technologies for Smartgrids Phase II," NSF, Award Amount: $4,999,721.00, 02/2020–01/2025.

- *Co-PI*, (PI: Z. Toups) "CHS: Small: Wearable Interfaces to Direct Agent Teams with Adaptive Autonomy," 2016–2019.

- *Senior Personnel*, (PI: E. Pontelli) "iCREDITS: interdisciplinary Center of Research Excellence in Design of Intelligent Technologies for Smartgrids," NSF, Awarded Amount $5 Mil., 01/14–12/19.

- *Co-PI*, (PI: O. Ma) "Development of an Adaptive Reduced-Gravity Simulator for Aerospace & Biomechanics Research," NSF, Awarded Amount $1,675,244, 03/09–02/13.

- *PI*, (Co-PI: E. Pontelli) "RI-Small: Approximation Based Reasoning and Planning," NSF, Awarded Amount $339,934, 09/08–08/12.

- *Co-PI*, (PI: E. Pontelli) "RAPD: Analytical and Exploratory Approaches to Communicate Mathematics to Visually Impaired Students," NSF, Awarded Amount $240,000, 08/08–07/12.

- *Senior Personnel*, (PI: E. Pontelli) "CREST: Center for Research Excellence in Bioinformatics Computational Biology, NSF CREST, $4,500,000, 09/2004–08/2009.

- *Co-PI*, (PI: C. Jonsson, University of Alabama) "Collaborative Research: The Impact of Rapid Anthropogenic Land Cover Change in the Chaco and Interior Atlantic Forest in Paraguay on Hantavirus Ecology," NIH, $186,748, 05/2004–04/2007.

- *co-PI*, (PI: J. Cecil, Industrial Engineering) "A Virtual Reality Framework For Bio Cell Manipulation," NMSU research proposal, Awarded Amount $25,000, 2006—-2007.

- *co-PI*, (PI: O. Ma, Mechanical Engineering) "A Cable-Robot based Hardware-in-the-loop Dynamic Simulator for Verification of Contact Dynamics of Space Systems," NMSU research proposal, Awarded Amount $50,000, 2006–2007, 2007—2008.

- *Co-PI*, (PI: E. Pontelli) "CRI: Computing Support for the Next Generation Application-Driven Declarative Programming Systems", NSF, Awarded Amount $102,879, 07/2005–06/2007.

- *Co-PI*, (PI: E. Pontelli) "Frameworks for the Development of Efficient and Scalable Knowledge-based Systems", NSF Minority Institution Infrastructure, Awarded Amount $1,500,000, 01/2002–01/2006.

- *Co-PI*, (PI: C. Jonsson, University of Alabama) "Collaborative Research: The Impact of Rapid Anthropogenic Land Cover Change in the Chaco and Interior Atlantic Forest in Paraguay on Hantavirus Ecology," NIH, $186,748, 05/2004–04/2008.

- *Co-PI*, (PI: E. Pontelli) "Parallel Logic and Constraint Programming, with Applications to Planning and Web Accessibility," CISE RESEARCH INFRASTRUCTURE, NSF, Awarded Amount $60,000 (Total)

- *Co-PI*, (PI: C. Baral, Arizona State University) "Agent development and control verification using dual characterizations", NASA, $29,500, 03/2001 – 12/2002

Selected Professional Activities

University and Departmental Service

- Department head, August 2017—present

- Interim department head, July 2014—July 2015

- Graduate program director, Spring 2009—Fall 2014

- Graduate admission chair, Fall 2006—Fall 2007; Summer 2009—Fall 2015

- Member of the Department Curriculum Committee, 2001—Fall 2016

- Member of the Department Graduate Committee, 2001—present

- Member of the Department Undergraduate Committee, 2001—Fall 2016

- Department's library liaison, 2001-2006

- Chair, Department technical report committee, 2002-2006.

Editorial Work, Conference and Workshop Chairs

- I am an editorial board member of the Artificial Intelligence journal from 2016–2020.

- I am the treasurer and a steering committee member of KR Inc.

- I am a steering committee member of Association of Logic Programming (ALP).

- Co-Chair (with Pierre Marquis), 19th International Conference on Principles of Knowledge Representation and Reasoning, KR 2023.

- Co-Local Organizer (with Thanh Van Dinh, Long Tran-Thanh, Giuseppe De Giacomo), 17th International Conference on Principles of Knowledge Representation and Reasoning, KR 2021.

- Co-General Chair (with Enrico Pontelli), 35rd International Conference on Logic Programming, ICLP 2019.

- Co-Local Organizer (with Joohyung Lee), 16th International Conference on Principles of Knowledge Representation and Reasoning, KR 2018.

- Co-Chair (with Ricardo Rocha), 33rd International Conference on Logic Programming, ICLP 2017.

- Co-Chair (with Amal El Fallah-Seghrouchni and Alessandro Ricci), 5th International Workshop on Engineering Multi-Agent Systems - EMAS 2017.

- Co-Chair (with Enrico Pontelli, Long Tran-Thanh, Rodney Martin), 2nd International Workshop on Artificial Intelligence in Smart Grids and Smart Buildings, AISGSB 2017.

- Co-Chair (with Matteo Baldoni, Amit K. Chopra, Michael Mäs), 19th International Conference on Principles and Practice of Multi-Agent Systems, PRIMA 2016.

- Co-Chair (with Enrico Pontelli, Alex Rogers, Sylvie Thiebaux), 1st International Workshop on Artificial Intelligence in Smart Grids and Smart Buildings, AISGSB 2016.

- Co-Chair (with Enrico Pontelli), 17th International Symposium on Practical Aspects of Declarative Languages, PADL 2015.

- Co-Chair (with Pedro Cabalar), 12th International Conference on Logic Programming and Nonmonotonic Reasoning, Corunna, Spain, 2013.

- Co-Chair (with João Leite), 14th International Workshop on Computational Logic in Multi-Agent Systems, Corunna, Spain, 2013.

- Co-Editor (with Marcello Balduccini) the collection entitled "Logic Programming, Knowledge Representation, and Nonmonotonic Reasoning," Essays Dedicated to Michael Gelfond on the Occasion of His 65th Birthday LNAI 6565 - Springer Verlag, 2011.

- Co-Organizer (with Enrico Pontelli), Workshop on Logic Programming and Multiagent Systems, ICLP 2011.

- Co-Chair (with Matteo Baldoni, M. Birna van Riemsdijk, and Michael Winikoff) of the 5th and 6th International Workshop on Declarative Agent Languages and Technologies, 2007 and 2008.

- Workshop chair, 24th International Conference on Logic Programming, 2008.

- Co-Chair (with Enrico Pontelli) Workshop on Preferences and their Applications in Logic Programming Systems, ICLP 2006.

- Area editor (Non-Monotonic Reasoning), Newsletter of the Association of Logic Programming since May 2004.

- Guest Co-Editor, Theory and Practice of Logic Programming, Special Issue on Answer Set Programming, Volume 3 – Issue 4 & 5 – July 2003.

- Co-Chair (with M. Thielscher) of the workshop on "Action and Causality", a subworkshop of NMR-04, 2004.

- Co-Chair (with A. Provetti) AAAI Spring Symposium on Answer Set Programming, 2001.

Program Committee Membership

I have served as a program committee member for several international conferences and workshops on artificial intelligence (IJCAI, AAAI, ECAI), knowledge representation and reasoning (KR), multi-agent (AAMAS, PRIMA) logic programming (ICLP), logic programming and nonmonotonic reasoning (LPNMR), and planning (ICAPS), etc.

Papers/Books Refereeing

I reviewed manuscript proposal, book, and many papers for leading journals in artificial intelligence (Artificial Intelligence Journal, Journal in Artificial Intelligence Research), computational logic (ACM Transactions on Computational Logic), logic programming (Theory and Practice of Logic Programming, Journal of Logic Programming), Computational Intelligence, Journal of Logic and Computation, etc.

Software Systems Developed

- Ep-ASP: A solver for epistemic logic programs

- ASP-GTAPF: An answer set programming based system for generalized task allocation and path finding

- ASP-GRD: An answer set programming based system for goal recognition design

- ASP-DPOP: An answer set programming based DCOP solver

- ASP-Negotiation: An answer set programming based system for negotiation agents

- Cp*: A suite of many conformant planners

- CPP: A logic programming based planner for planning with preferences

- ASCP: A logic programming based conditional planner

- CPR: A regression based conditional planner

- ΦLOG: An interpreter and execution monitoring system for ΦLOG-programs

- ASP-CLP(Agg): Answer Set Programming with Aggregates

- ASP-Prolog: A System for Reasoning about Answer Sets

Teaching and Advising

- **Courses Taught:** Artificial Intelligence I, Artificial Intelligence II, Discrete Mathematics, Introduction to Data Structures, Database Management System I, Database Management System II, Data Mining (part of Artificial Intelligence II), Building and Programming Mobile Robots, Planning, Computer Graphics, Multi-agent Systems, Semantic Web, Knowledge Representation and Reasoning, Non-Monotonic Reasoning, Big Data.

- **Graduate Students Advising:**

  - *Doctoral Advisor:* Phan Huy Tu (2007), Son Thanh To (2012), Khoi Hoang Nguyen (2013), Hieu Ngoc Nguyen (2013), Vien Tran (2013), Tiep Le (2018), Quan Do (2019), Van Nguyen (2021), Thanh Nguyen (2021), currently supervising 5 doctoral students.
  - *Master Student Advisor:* I graduated 25 M.Sc. students.
  - *Undergraduate Thesis Advisor:* Trung Le (2009, Honor Thesis), Greg Hinojos (2011, Double Major Thesis), Russel Folk (2014), Benjamin Churchill (2017)

SELECTED PUBLICATIONS (JOURNALS)

[1] Chitta Baral, Gregory Gelfond, Enrico Pontelli, Tran Cao Son. An action language for multi-agent domains. *Artificial Intelligence Journal*, 302:103601 (2022).

[2] Tran Cao Son, Enrico Pontelli, Marcello Balduccini, Torsten Schaub. Answer Set Planning: A Survey. *Theory and Practice of Logic Programming*, 1-73 (2022).

[3] Stylianos Loukas Vasileiou, William Yeoh, Tran Cao Son, Ashwin Kumar, Michael Cashmore, Dianele Magazzeni. A Logic-Based Explanation Generation Framework for Classical and Hybrid Planning Problems. *Journal of Artificial Intelligence Research* 73, 1473-1534, 2022.

[4] Thanh Hai Nguyen, Matthew Bundas, Tran Cao Son, Marcello Balduccini, Kathleen Campbell Garwood, Edward R Griffor. Specifying and Reasoning about CPS through the Lens of the NIST CPS Framework. *Theory Pract. Log. Program.* (2022)

[5] Jorge Fandinno, François Laferriére, Javier Romero, Torsten Schaub, Tran Cao Son. Planning with incomplete information in quantified answer set programming. *Theory and Practice of Logic Programming* 21 (5):663-679 (2021)

[6] Marlena R. Fraune, Ahmed S. Khalaf, Mahlet Zemedie, Poom Pianpak, Zahra NaminiMianji, Sultan A. Alharthi, Igor Dolgov, Bill Hamilton, Tran Cao Son, Z O. Toups: Developing Future Wearable Interfaces for Human-Drone Teams through a Virtual Drone Search Game. *Int. J. Hum. Comput. Stud.* 147: 102573 (2021)

[7] Chiaki Sakama, Tran Cao Son: Epistemic Argumentation Framework: Theory and Computation. *J. Artif. Intell. Res.* 69: 1103-1126 (2020)

[8] Botros N. Hanna, Ly Ly T. Trieu, Tran Cao Son, Nam T. Dinh: An Application of ASP in Nuclear Engineering: Explaining the Three Mile Island Nuclear Accident Scenario. *Theory Pract. Log. Program.* 20(6): 926-941 (2020)

[9] Patrick Thor Kahl, Anthony P. Leclerc, Tran Cao Son: A parallel memory-efficient epistemic logic program solver: harder, better, faster. *Ann. Math. Artif. Intell.* 86(1-3): 61-85 (2019)

[10] Tran Cao Son and Marcello Balduccini. Answer Set Planning in Single- and Multi-agent Environments. KI 32(2-3): 133-141 (2018)

[11] João Leite, Tran Cao Son, Paolo Torroni, Stefan Woltran: Preface to the Special Issue on Computational Logic in Multi-Agent Systems (CLIMA XIV). *J. Log. Comput.* 28(3): 475-476 (2018)

[12] Tiep Le, Tran Cao Son, Enrico Pontelli, William Yeoh. Solving Distributed Constraint Optimization Problems Using Logic Programming. *Theoretical and Practice of Logic Programming* 17(4): 634-683 (2017)

[13] Tiep Le, Tran Cao Son, Enrico Pontelli. Multi-context Systems with Preferences. *Fundamenta Informaticae* 158(1-3): 171-216 (2018).

[14] Son Thanh To, Tran Cao Son, Enrico Pontelli. A Generic Approach to Planning in the Presence of Incomplete Information: Theory and Implementation. *Artificial Intelligence Journal*, 227: 1-51 (2015).

[15] João Leite, Tran Cao Son, Paolo Torroni, Stefan Woltran. Applications of logical approaches to argumentation. *Argument & Computation* 6(1): 1-2 (2015).

[16] Tran Cao Son, Enrico Pontelli, Ngoc-Hieu Nguyen, Chiaki Sakama. Formalizing Negotiations Using Logic Programming. *ACM Trans. Comput. Log.* 15(2): 12 (2014).

[17] Vien Tran, Khoi Nguyen, Tran Cao Son, Enrico Pontelli. A Conformant Planner Based On Approximation: CpA(H). ACM Transactions on Intelligent Systems and Technology (ACM TIST), 4(2): 36 (2013).

[18] Luis Tari, Phan Huy Tu, Jörg Hakenberg, Yi Chen, Tran Cao Son, Graciela Gonzalez, Chitta Baral. Incremental Information Extraction Using Relational Databases. *IEEE Transactions on Knowledge & Data Engineering*, 24(1):86-99, 2012.

[19] Phan Huy Tu, Tran Cao Son, Michael Gelfond, Ricardo Morales. Approximation of Action Theories and Its Application to Conformant Planning. *Artificial Intelligence Journal*, Volume 175, Issue 1, Pages 79-119, January 2011.

[20] Brandon Chisham, Ben Wright, Trung Le, Tran Cao Son, and Enrico Pontelli CDAO-Store: Ontology-driven Data Integration for Phylogenetic Analysis BMC Bioinformatics, 2011.

[21] Lengning Liu, Enrico Pontelli, Tran Cao Son, and Miroslaw Truszczynski. Logic Programs with Abstract Constraint Atoms: The Role of Computations. *Artificial Intelligence Journal*, Volume 174, Issues 3-4, March 2010.

[22] Iyad Abu Doush, Enrico Pontelli, Tran Cao Son, Dominic Simon, Ou Ma. Multimodal Presentation of Two-dimensional Charts: An Investigation Using Open Office XML and Microsoft Excel. *ACM Transactions on Accessible Computing*, 3(2), Article No. 8, 2010.

[23] Chitta Baral, Gregory Gelfond, Enrico Pontelli, Tran Cao Son. Logic programming for finding models in the logics of knowledge and its applications: A case study. *Theoretical and Practice of Logic Programming* 10(4-6): 675-690 (2010)

[24] Enrico Pontelli, Hung Viet Le, and Tran Cao Son. An Investigation in Parallel Execution of Answer Set Programs on Distributed Memory Platforms: Task Sharing, and Dynamic Scheduling. *Computer Languages, Systems & Structures* 36(2):158-202 (2010).

[25] Enrico Pontelli, Tran Cao Son, Omar El-Khatib. Justifications for Logic Programs under Answer Set Semantics. *Theoretical and Practice of Logic Programming*, 9(1): 1-56 (2009).

[26] Phan Huy Tu, Enrico Pontelli, Tran Cao Son, and To Thanh Son. Applications of Parallel Processing Technologies in Heuristic Search Planning: Methodologies and Experiments. *Concurrency and Computation: Practice and Experience*, 21(15): 1928-1960 (2009).

[27] Richard Scherl, Tran Cao Son, and Chitta Baral State-Based Regression with Sensing and Knowledge. *International Journal of Software and Informatics*, 3(1):3-29 (2009).

[28] Tran Cao Son, Enrico Pontelli, and Phan Huy Tu. Answer Sets for Logic Programs with Arbitrary Abstract Constraint Atoms. *Journal of Artificial Intelligence Research*, 29: 353-389 (2007).

[29] Phan Huy Tu, Tran Cao Son, and Chitta Baral. Reasoning and Planning with Sensing Actions, Incomplete Information, and Static Causal Laws using Answer Set Programming. *Theoretical and Practice of Logic Programming*, 7(4): 377-450 (2007).

[30] Tran Cao Son and Enrico Pontelli. A Constructive Semantic Characterization of Aggregates in Answer Set Programming. *Theoretical and Practice of Logic Programming*, 7(3): 355-375 (2007).

[31] Tran Cao Son, Chitta Baral, Tran Hoai Nam, and Sheila McIlraith. Domain-Dependent Knowledge in Answer Set Planning. *ACM Transaction on Computational Logic*, Volume 7, Number 4, 2006.

[32] Tran Cao Son and Enrico Pontelli. Planning with Preferences using Logic Programming. *Theoretical and Practice of Logic Programming*, Volume 6, Issue 5, September 2006, 559-608.

[33] Tran Cao Son, Chitta Baral, Tran Hoai Nam, and Sheila McIlraith. Domain-Dependent Knowledge in Answer Set Planning. *ACM Transaction on Computational Logic*, Volume 7, Number 4, 2006.

[34] Le Chi Tuan, Chitta Baral and Tran Cao Son. A State-Based Regression Formulation for Domains with Sensing Actions and Incomplete Information. *Logical Methods in Computer Science*. Volume 2, Issue 4, 2006.

[35] Tran Cao Son, Phan Huy Tu, and Xin Zhang. Reasoning about Sensing Actions in Domains with Multi-Valued Fluents. *Studia Logica* (2005) 79: 135-160.

[36] Tran Cao Son and Enrico Pontelli. Reasoning about Actions and Planning with Preferences Using Prioritized Default Theory. *Computational Intelligence*, 20 (2) 358-404, 2004.

[37] Enrico Pontelli, Tran Cao Son, Keshav Reddy Kottapally, Co Thai Ngo, Ravikumar Reddy Kotthuru, Doug Gillan. A system for automatic structure discovery and reasoning-based navigation of the web. *Journal of Interacting with Computers*, 19 (2004) 451-475.

[38] Enrico Pontelli and Tran Cao Son. Designing Intelligent Agents to Support Universal Accessibility of the World Wide Web. Journal on *Electronic Commerce Research and Applications*, 2(2), pages 147-161. Elsevier, March-May 2003.

[39] Phan Minh Dung and Tran Cao Son. An Argument-Based Approach to Reasoning with Specificity. *Artificial Intelligence Journal*, Vol 133(1-2): 35-85 (2001).

[40] Tran Cao Son and Chitta Baral. Formalizing Sensing Actions - A Transition Function Based Approach. *Artificial Intelligence Journal*, Vol 125, Issues 1-2, January 2001, pages 19 - 91.

[41] Sheila McIlraith, Tran Cao Son, and Honglei Zeng. Semantic Web Services, IEEE Intelligent Systems. *Special Issue on the Semantic Web*. March/April, 2001. IEEE.

[42] Chitta Baral and Tran Cao Son. Relating Theories of actions and reactive control. ETAI - *Electronic Transactions on Artificial Intelligence*, Vol 2, Issues 3-4, July - December, 1998, pages 211-271.

[43] Chitta Baral, Gracia Gonzales, and Tran Cao Son. Conceptual modeling and querying in multi-media databases. *Journal of multi-media tools and application.* Vol 7, pages 37–66 (1998).

[44] David Morales and Tran Cao Son. Interval Methods in Robot Navigation. *Reliable Computing.* Vol 4, 55-61, 1998.

EDITED VOLUME/SPECIAL ISSUES

[45] Ricardo Rocha, Tran Cao Son, Christopher Mears, Neda Saeedloei. Technical Communications of the 33rd International Conference on Logic Programming, ICLP 2017, August 28 to September 1, 2017, Melbourne, Australia. OASICS 58, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik 2018, ISBN 978-3-95977-058-3

[46] Ricardo Rocha, Tran Cao Son. Introduction to the 33rd international conference on logic programming special issue. TPLP 17(5-6): 684-688 (2017)

[47] Matteo Baldoni, Amit K. Chopra, Tran Cao Son, Katsutoshi Hirayama, Paolo Torroni. Proceedings of the 19th International Conference on Principles and Practice of Multi-Agent Systems (PRIMA 2016). Lecture Notes in Computer Science 9862, Springer 2016.

[48] João Leite, Tran Cao Son, Paolo Torroni, Stefan Woltran. Preface to the Special Issue on Computational Logic in Multi-Agent Systems (CLIMA XIV) *Journal of Logic and Computation*: February (2015).

[49] Enrico Pontelli and Tran Cao Son. Proceedings of the 17th International Symposium on Practical Aspects of Declarative Languages, PADL 2015, Portland, OR, USA, 2015. Lecture Notes in Computer Science 9131, Springer 2015.

[50] Pedro Cabalar and Tran Cao Son. Proceedings of the 12th International Conference on Logic Programming and NonMonotonic Reasoning. LNAI 8148 - Springer Verlag, 2013.

[51] Joao Leite, Paolo Torroni, Tran Cao Son, Leon van der Torre, Stephan Woltran. Proceedings of the 14th International Workshop on Computational Logic and Multi-Agent Systems LNAI 8143 - Springer Verlag, 2013.

[52] Marcello Balduccini and Tran Cao Son. Logic Programming, Knowledge Representation, and Nonmonotonic Reasoning. Essays Dedicated to Michael Gelfond on the Occasion of His 65th Birthday LNAI 6565 - Springer Verlag, 2011.

[53] Matteo Baldoni, Tran Cao Son, M. Birna van Riemsdijk, and Michael Winikoff (eds.) Declarative Agent Languages and Technologies V. *Proceedings of 5th International Workshop*, DALT 2007. Revised Selected and Invited Papers, Springer 2008.

[54] Matteo Baldoni, Tran Cao Son, M. Birna van Riemsdijk, and Michael Winikoff (eds.) Declarative Agent Languages and Technologies VI. *Proceedings of 6th International Workshop*, DALT 2008. Revised Selected and Invited Papers, Springer 2009.

[55] Chitta Baral, Alessandro Provetti, and Tran Cao Son. Introduction to the special issue on Programming with Answer Sets. *Theory and Practice of Logic Programming*, Volume 3, No. 4-5, 387-391.

Selected Publications (Peer-Reviewed Conferences, Reverse Chronological Order)

[56] Loc Pham, Tran Cao Son, Enrico Pontelli. Update models for lying and misleading announcements. Proceedings of the 37th ACM/SIGAPP Symposium on Applied Computing, 911-916, 2022.

[57] Loc Pham, Tran Cao Son, Enrico Pontelli. Formalizing the Three Player Card Game Using the Language mA. 19th International Workshop on Non-Monotonic Reasoning, 95–106, 2021.

[58] Chiaki Sakama, Tran Cao Son. Interlinking Logic Programs and Argumentation Frameworks. 19th International Workshop on Non-Monotonic Reasoning, 305–115, 2021.

[59] Matthew Bundas, Chasity Nadeau, Thanh Nguyen, Jeannine Shantz, Marcello Balduccini, Tran Cao Son. Towards a Framework for Characterizing the Behavior of AI-Enabled Cyber-Physical and IoT Systems. IEEE 7th World Forum on Internet of Things (WF-IoT), 551–556, IEEE, 2021.

[60] Francesco Fabiano, Alessandro Burigana, Agostino Dovier, Enrico Pontelli, Tran Cao Son. Multi-agent Epistemic Planning with Inconsistent Beliefs, Trust and Lies. Pacific Rim International Conference on Artificial Intelligence. Springer LNAI, 586-597, 2021.

[61] Van Nguyen, Tran Cao Son, William Yeoh. Explainable Problem in clingo-dl Programs Proceedings of the International Symposium on Combinatorial Search. 12(1): 231-232.

[62] B Hanna, TC Son, N Dinh. AI-Guided Reasoning-Based Operator Support System for the Nuclear Power Plant Management Annals of Nuclear Energy 154, 2021.

[63] MMP Chowdhury, J Perez, C Kiekintveld, SC Tran, W Yeoh, E Pontelli Empirical game-theoretic methods to minimize regret against specific opponents Artificial Intelligence and Machine Learning for Multi-Domain Operations Applications III, 11746: 117460J. International Society for Optics and Photonics. 2021

[64] Ly Ly Thi Trieu, Tran Cao Son, Enrico Pontelli, Marcello Balduccini Generating explanations for answer set programming applications Artificial Intelligence and Machine Learning for Multi-Domain Operations Applications III, 11746: 117461L. International Society for Optics and Photonics. 2021

[65] Tran Cao Son, Van Nguyen, Stylianos Loukas Vasileiou, William Yeoh: Model Reconciliation in Logic Programs. JELIA 2021: 393-406

[66] Jorge Fandinno, François Laferriére, Javier Romero, Torsten Schaub, Tran Cao Son: Planning with Incomplete Information in Quantified Answer Set Programming. ICLP 2021, also CoRR abs/2108.06405 (2021)

[67] Fabio Tardivo, Loc Pham, Tran Cao Son, Enrico Pontelli: A Logic Programming Approach to Regression Based Repair of Incorrect Initial Belief States. PADL 2021: 73-89

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