Paul Tarau

Education

Ph.D. Computer Science, University of Montreal (1990)

M.S. Computer Science, Laval University (1986)

B.S. Mathematics University of Bucharest (1975)

Academic Experience

* Full Professor at Univ. of North Texas, from Sept 2013
* Tenured Associate Professor at Univ. of North Texas, from Sept 2000
* Tenure Track Associate Professor at Univ. of North Texas, Sept 1998-Aug 2000
* • Tenure Track Associate Professor at Louisiana Tech University, from Dec 1997- to Aug 1998
* Tenured Associate Professor 1994-1997 at Univ. of Moncton, Canada
* • Tenured Assistant Professor 1989-1994 at Univ. of Moncton, Canada
* • Tenure track position at University of Moncton, Canada since 1986-1989

Non-Academic Experience: NA

Certifications or Professional Registrations: NA

Current Membership in Professional Organizations

* Association of Logic Programming

Honors and Awards

* Elected Member of the Executive Committee of the Association of Logic Programming (2016-2020)
* Several best paper awards at international conferences

Service Activities

* Member UNT Personal Affairs Committee, Graduate Committee, Search Committee
* Program Chair of International Conference on Logic Programming ICLP’2018
* Program Committee member for several ICLP, PADL, ACM’SAC, TextGraphs conferences

Most Important Publications and Presentations from the Past Five Years

* Paul Tarau and Eduardo Blanco. Interactive Text Graph Mining with a Prolog-Based Dialog Engine. Theory and Practice of Logic Programming, pages 1–20, 2020.
* Paul Tarau. Deriving Efficient Sequential and Parallel Generators for Closed Simply-Typed Lambda Terms and Normal Forms. Fundam. Informaticae, 177(3-4):385–415, 2020.
* Maciej Bendkowski, Katarzyna Grygiel, and Paul Tarau. Random generation of closed simply typed λ-terms: A synergy between logic programming and Boltzmann samplers. TPLP, 18(1):97–119, 2018.
* Paul Tarau. A family of unification-oblivious program transformations and their applications. In Jos ́e F. Morales and Dominic A. Orchard, editors, Practical Aspects of Declarative Languages - 23rd International Symposium, PADL 2021, Copenhagen, Denmark, January 18-19, 2021, Proceedings, volume 12548 of Lecture Notes in Computer Science, pages 3–19. Springer, 2021.
* Paul Tarau and Valeria de Paiva. Deriving Theorems in Implicational Linear Logic, Declaratively. In Francesco Ricca, Alessandra Russo, Sergio Greco, Nicola Leone, Alexander Artikis, Gerhard Friedrich, Paul Fodor, Angelika Kimmig, Francesca A. Lisi, Marco Maratea, Alessandra Mileo, and Fabrizio Riguzzi, editors, Proceedings 36th International Conference on Logic Programming (Technical Com- munications), ICLP Technical Communications 2020, (Technical Communications) UNICAL, Rende (CS), Italy, 18-24th September 2020, volume 325 of EPTCS, pages 110–123, 2020.
* Paul Tarau, Jan Wielemaker, and Tom Schrijvers. Lazy Stream Programming in Prolog. In Bart Bo- gaerts, Esra Erdem, Paul Fodor, Andrea Formisano, Giovambattista Ianni, Daniela Inclezan, German Vidal, Alicia Villanueva, Marina De Vos, and Fangkai Yang, editors, Technical Communications of ICLP 2019, EPTCS 309, 2019.
* Paul Tarau. A Combinatorial Testing Framework for Intuitionistic Propositional Theorem Provers. In Jos ́e Ju ́lio Alferes and Moa Johansson, editors, Practical Aspects of Declarative Languages - 21th International Symposium, PADL 2019, Lisbon, Portugal, January 14-15, 2019, Proceedings, volume 11372 of Lecture Notes in Computer Science, pages 115–132. Springer, 2019.
* [26] Paul Tarau. Modality definition synthesis for epistemic intuitionistic logic via a theorem prover. CoRR, abs/1907.11838, 2019.
* Paul Tarau. On k-colored Lambda Terms and their Skeletons. In Francesco Calimeri, Kevin W. Hamlen, and Nicola Leone, editors, Practical Aspects of Declarative Languages - 20th International Symposium, PADL 2018, Los Angeles, CA, USA, January 8-9, 2018, Proceedings, volume 10702 of Lecture Notes in Computer Science, pages 116–131. Springer, 2018.
* Paul Tarau. Declarative Algorithms for Generation, Counting and Random Sampling of Term Algebras. In Proceedings of SAC’18, ACM Symposium on Applied Computing, PL track, Pau, France, April 2018. ACM.
* Paul Tarau. A Hiking Trip Through the Orders of Magnitude: Deriving Efficient Generators for Closed Simply-Typed Lambda Terms and Normal Forms. In Manuel V Hermenegildo and Pedro Lopez- Garcia, editors, Logic-Based Program Synthesis and Transformation: 26th International Symposium, LOPSTR 2016, Edinburgh, UK, Revised Selected Papers, pages 240–255. Springer LNCS, volume 10184, September 2017. , Best paper award.
* Maciej Bendkowski, Katarzyna Grygiel, and Paul Tarau. Boltzmann Samplers for Closed Simply-Typed Lambda Terms. In Yuliya Lierler and Walid Taha, editors, Practical Aspects of Declarative Languages - 19th International Symposium, PADL 2017, Paris, France, January 16-17, 2017, Proceedings, volume 10137 of Lecture Notes in Computer Science, pages 120–135. Springer, 2017. , Best student paper award.
* O. Bodini and P. Tarau. On Uniquely Closable and Uniquely Typable Skeletons of Lambda Terms. CoRR, abs/1709.04302, September 2017.
* Paul Tarau. A Hitchhiker’s Guide to Reinventing a Prolog Machine. In Ricardo Rocha, Tran Cao Son, Christopher Mears, and Neda Saeedloei, editors, Technical Communications of the 33rd International Conference on Logic Programming (ICLP 2017), volume 58 of OpenAccess Series in Informatics (OA- SIcs), pages 10:1–10:16, Dagstuhl, Germany, 2018. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik.
* Paul Tarau. Computing with Catalan Families, Generically. In M. Gavanelli and J. Reppy, editors,
* Proceedings of the Eighteenth International Symposium on Practical Aspects of Declarative Languages PADL’16, pages 117–134, St. Petersburg, Florida, USA, January 2016. Springer, LNCS.
* Paul Tarau. A Size-proportionate Bijective Encoding of Lambda Terms as Catalan Objects endowed with Arithmetic Operations. In M. Gavanelli and J. Reppy, editors, Proceedings of the Eighteenth International Symposium on Practical Aspects of Declarative Languages PADL’16, pages 99–116, St. Petersburg, Florida, USA, January 2016. Springer, LNCS.
* Karen Mazidi and Paul Tarau. Automatic Question Generation: From NLU to NLG, pages 23–33. Springer International Publishing, Cham, 2016.
* Fahmida Hamid, David Haraburda, and Paul Tarau. Evaluating text summarization systems with a fair baseline from multiple reference summaries. In Nicola Ferro, Fabio Crestani, Marie-Francine Moens, Josiane Mothe, Fabrizio Silvestri, Giorgio Maria Di Nunzio, Claudia Hauff, and Gianmaria Silvello, editors, Advances in Information Retrieval - 38th European Conference on IR Research, ECIR 2016, Padua, Italy, March 20-23, 2016. Proceedings, volume 9626 of Lecture Notes in Computer Science, pages 351–365. Springer, 2016.
* Karen Mazidi and Paul Tarau. Infusing NLU into automatic question generation. In Amy Isard, Verena Rieser, and Dimitra Gkatzia, editors, INLG 2016 - Proceedings of the Ninth International Natural Language Generation Conference, September 5-8, 2016, Edinburgh, UK, pages 51–60. The Association for Computer Linguistics, 2016.

Most Recent Professional Development Activities

* Attended and presented papers at ICLP 2015-2022 conferences
* Attended and presented papers at PADL 2015-2022 conferences
* Attended and presented papers at LOPSTR’