

Sławomir (Sławek) Staworko

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Personal data

Date of birth: 31 January 1979.

Polish citizen.

Languages: English, French, Polish.

Education

- 2015: HdR en Informatique, Université de Lille 1, France.
Dissertation title: *Symbolic Inference Methods for Databases*.
Guarantor: Sophie Tison.
- 2002 to 2007: Ph.D. Program in Computer Science, University at Buffalo, NY, USA.
Ph.D. dissertation title: *Declarative Inconsistency Handling in Relational and Semi-structured Databases*.
Supervisor: Jan Chomicki.
- 1998 to 2002: B.S/M.S. Program in Computer Science, Wrocław University, Poland.
M.S. thesis title: *Effective Implementations of Priority Queues* (in Polish).
Advisor: Krzysztof Loryś

Employment

- 2020 to now, International Relations Coordinator at computer Science Department, University of Lille, France.
- 2013 to now, Research Member, LINKS team, INRIA Lille - Nord Europe, France.
- 2009 to now, Assistant Professor, University of Lille, France.
- 2016 to 2018, Research Member, Algomus exploratory action, CRiSTAL/MIS/iCAVS/irDIVE, France.
- 2016 to 2018, Dydactic Director of the track *Web Analyste* of Master MIASHS, UFR MIME, University of Lille.
- 2014 to 2016, Research Fellow, University of Edinburgh, UK (on leave of absence from University of Lille)
- 2013 to 2014, Research Fellow, CNRS (sabbatical)
- 2009 to 2012, Research Member, Mostrare project, INRIA Lille - Nord Europe, France.
- 2007 to 2009, Postdoctoral fellow, Mostrare Project, INRIA Lille - Nord Europe, France.
- 2008, Teaching Assistant, University of Lille 1, France.
- 2002 to 2007, Teaching and Research Assistant, Lecturer, University at Buffalo, NY, USA.
- 2001 to 2002, Software Engineer, adv .pl Interactive Solutions, Wrocław, Poland.

Research interests

Novel database applications; data integration; uncertain and inconsistent databases; inference for databases; data quality; graph databases;

Program committees

1. SIGMOD 2022; *ACM Special Interest Group on Management of Data*
2. EDBT 2020: *International Conference on Extending Database Technology*
3. PODS 2016: *ACM Symposium on Principles of Database System*
4. BICOD 2015: *British International Conference on Databases*
5. WebDB 2014: *International Workshop on the Web and Databases*
6. ICDT 2013: *International Conference on Database Theory*
7. WebDB 2013: *International Workshop on the Web and Databases*
8. SUM 2011: *International Conference on Scalable Uncertainty Management*
9. LID 2011: *International Workshop on Logic in Databases*, co-chair.

Selected publications

1. A. Bonifati, S. Dumbrava, G. Fletcher, J. Hidders, M. Hofer, W. Martens, F. Murlak, J. Shnavier, S. Staworko, D. Tomaszuk “Threshold Queries in Theory and in the Wild,” *International Conference on Very Large Data Bases (VLDB)*, September 2022.
2. B. Groz, A. Lemay, S. Staworko, P. Wiecek “Inference of Shape Graphs for Graph Databases”, *International Conference on Database Theory (ICDT)*, March 2022.
3. R. Angles, A. Bonifati, S. Dumbrava, G. Fletcher, K. W. Hare, J. Hidders, V. E. Lee, B. Li, L. Libkin, W. Martens, F. Murlak, J. Perryman, O. Savkovic, M. Schmidt, J. F. Sequeda, S. Staworko, D. Tomaszuk, “PG-Keys: Keys for Property Graphs,” *ACM Special Interest Group on Management of Data (SIGMOD)*, June 2021, Xi’an, Shaanxi, China.
4. S. Staworko, P. Wiecek “Containment of Shape Expression Schemas for RDF,” *ACM Symposium on Principles of Database Systems (PODS)*, June 2019, Amsterdam, Netherlands.
5. P. Buneman, S. Staworko “RDF Graph Alignment with Bisimulation,” *International Conference on Very Large Data Bases (VLDB)*, September 2016.
6. M. Giraud, S. Staworko, “Modeling Musical Structure with Parametric Grammars,” *International Conference on Mathematics and Computation in Music (MCM)*, June 2015.
7. S. Staworko, P. Wiecek, “Characterizing XML Twig Queries with Examples,” *International Conference on Database Theory (ICDT)*, March 2015.
8. S. Staworko, I. Boneva, J. E. Labra Gayo, S. Hym, E. G. Prud’hommeaux, H Solbrig, “Complexity and Expressiveness of ShEx for RDF,” *International Conference on Database Theory (ICDT)*, March 2015.
9. A. Bonifati, R. Ciucanu and S. Staworko “Interactive Inference of Join Queries,” *International Conference on Extending Database Technology (EDBT)*, March 2014.
10. G. Laurence, A. Lemay, J. Niehren and S. Staworko, and M. Tommasi “Learning Sequential Tree-to-Word Transducers,” *International Conference on Language and Automata Theory and Applications (LATA)*, March 2014.
11. B. Groz, S. Staworko, S. Maneth, “Deterministic Regular Expressions in Linear Time,” *ACM Symposium on Principles of Database Systems (PODS)*, May 2012.

12. S. Staworko, P. Wiecek, "Learning Twig and Path Queries," *International Conference on Database Theory (ICDT)*, March 2012.
13. G. Puppis, C. Riveros, S. Staworko, "Bounded Reparability for Regular Tree Languages," *International Conference on Database Theory (ICDT)*, March 2012.
14. G. Laurence, A. Lemay, J. Niechren, S. Staworko, M. Tommasi, "Normalization of Sequential Top-Down Tree-to-Word Transducers," *Language and Automata Theory and Applications (LATA)*, March 2011.
15. I. Boneva, B. Groz, A.-C. Caron, Y. Roos, S. Staworko, S. Tison "View Update Translation for XML," *International Conference on Database Theory (ICDT)*, March 2011.
16. S. Staworko, J. Chomicki, J. Marcinkowski, "Prioritized Repairing and Consistent Query Answering in Relational Databases," *Annals of Mathematics and Artificial Intelligence (AMAI)*, Special issue: Scalable Uncertainty Management (SUM'08).
17. S. Staworko, J. Chomicki, "Consistent Query Answers in the Presence of Universal Constraints," *Information Systems*, Volume 35(1), 2010.
18. S. Staworko, I. Boneva, B. Groz, "The View Update Problem for XML," *EDBT/ICDT Workshops (Updates in XML)*, March 2010.
19. B. Groz, S. Staworko, A.-C. Caron, Y. Roos, and S. Tison XML, "XML Security Views Revisited," *International Symposium on Database Programming Languages (DBPL)*, August 2009.
20. S. Staworko, A. Lemai, G. Laurance, J. Niehren, "Equivalence of Top-Down Deterministic Nested Word Transducers," *International Symposium on Fundamentals of Computation Theory (FCT)*, September 2009.
21. S. Staworko, J. Chomicki, J. Marcinkowski, "Preference-Driven Querying of Inconsistent Relational Databases," *EDBT Workshops (IIDB)*, March 2006.
22. S. Staworko, J. Chomicki, "Validity Sensitive Querying of XML Databases," *EDBT Workshops (dataX)*, March 2006.
23. J. Chomicki, J. Marcinkowski, S. Staworko, "Computing Consistent Query Answers using Conflict Hypergraphs," *Conference on Information and Knowledge Management (CIKM)*, November 2004.
24. J. Chomicki, J. Marcinkowski, S. Staworko, "Hippo: a System for Computing Consistent Query Answers to a Class of SQL Queries," *International Conference on Extending Database Technology (EDBT)*, March 2004, *System demo*.