

Christoph Koch

Professional Activities:

- Associate Editor, ACM Transactions on Internet Technology (TOIT).
- Panelist, SIGMOD 2008 New Faculty Symposium, Vancouver, Canada.
- PC Chair, WebDB 2008, Vancouver, Canada.
- PC Vice Chair (XML and Semistructured Data), 24th IEEE International Conference on Data Engineering (ICDE) 2008.
- Proceedings Chair, 33rd VLDB 2007, Vienna, Austria.
- Program Committee Member, 26th ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems (PODS 2007), Beijing, China.
- Program Committee Member, 16th International World Wide Web Conference (WWW) 2007, Banff, Alberta, Canada.
- Program Committee Member, 34th International Colloquium on Automata, Languages and Programming (ICALP 2007), Wroclaw, Poland.
- Program Committee Member, 12. GI-Fachtagung fuer Datenbanksysteme in Business, Technologie und Web (BTW 2007), Aachen, Germany.
- Program Committee Member, ACM SIGMOD International Conference on Management of Data 2008, Vancouver, Canada.
- Program Committee Member, 11th International Conference on Extending Database Technology (EDBT) 2008, Nantes, France.

Publications:

- Christoph Koch, Stefanie Scherzinger, and Michael Schmidt. XML Prefiltering as a String Matching Problem. In Proc. ICDE 2008, Cancun, Mexico.
- Lyublena Antova, Thomas Jansen, Christoph Koch, Dan Olteanu. Fast and Simple Relational Processing of Uncertain Data. In Proc. ICDE 2008, Cancun, Mexico.
- Michaela Goetz, Christoph Koch, and Wim Martens. Efficient Algorithms for the Tree Homeomorphism Problem. In Proc. DBPL 2007, Vienna, Austria.
- Christoph Koch, Stefanie Scherzinger, and Michael Schmidt. "The GCX System: Dynamic Buffer Minimization in Streaming XQuery Evaluation." In Proc. VLDB 2007, Vienna, Austria. Demo paper.
- Lyublena Antova, Christoph Koch, and Dan Olteanu. "Query language support for incomplete information in the MayBMS system." In Proc. VLDB 2007, Vienna, Austria. Demo paper.
- Lyublena Antova, Christoph Koch, Dan Olteanu. From Complete to Incomplete Information and Back. In Proc. of the 2007 ACM SIGMOD Int. Conf. on Management of Data (SIGMOD 2007), pp. 713–724.
- Walker White, Alan Demers, Christoph Koch, Johannes Gehrke, and Rajmohan Rajagopalan, Scaling Games to Epic Proportions. In Proc. of the 2007 ACM SIGMOD Int. Conf. on Management of Data (SIGMOD 2007), pp. 31–42.
- Alan Demers, Johannes Gehrke, Mingsheng Hong, Christoph Koch, Mirek Riedewald, and Walker White. Massively Multi-Query Join Processing in Publish/Subscribe Systems. In Proc. of the 2007 ACM SIGMOD Int. Conf. on Management of Data (SIGMOD 2007), pp. 761–772.
- Lyublena Antova, Christoph Koch, and Dan Olteanu. "MayBMS: Managing Incomplete Information with Probabilistic World-Set Decompositions." In Proc. ICDE 2007, Istanbul, Turkey, pp. 1479–1480. Demo Paper.

- Michael Schmidt, Stefanie Scherzinger, and Christoph Koch. Combined Static and Dynamic Analysis for Effective Buffer Minimization in Streaming XQuery Evaluation. In Proc. ICDE 2007, Istanbul, Turkey, pp. 236–245.
- Lyublena Antova, Christoph Koch, and Dan Olteanu. 10^{10^6} Worlds and Beyond: Efficient Representation and Processing of Incomplete Information. In Proc. ICDE 2007, Istanbul, Turkey, pp. 606–615.
- Lyublena Antova, Christoph Koch, and Dan Olteanu. “World-set Decompositions: Expressiveness and Efficient Algorithms”. In Proc. ICDT 2007, pp. 194–208, Barcelona, Spain.

Lectures:

- “XPath Leashed”. Invited talk, PLANX 2007, Jan. 20, 2007, Nice, France.
- “MayBMS – A System for Managing Large Amounts of Incomplete Information”. Presented at Wilhelm-Schickard-Institut fuer Informatik, Universitaet Tuebingen, Germany, Mar. 19, 2007.
- “MayBMS: A System for Managing Large Uncertain and Probabilistic Databases”. Presented at the Departmental Colloquium of the Brown University Computer Science Department, Providence, RI, Jan. 24, 2008.
- “MayBMS: A System for Managing Large Uncertain and Probabilistic Databases”. Presented at CIS, University of Pennsylvania, May 2, 2008.