

Resume Toon Calders

Biographical information

First Name Toon
Surname Calders
Address Hoogbunderlaan 42
B-2550 Kontich, Belgium
Place of birth Leuven
Date of birth 1977, January 2nd
Marital status Married, 2 children
Nationality Belgian

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Education

1989-1995: High school Diploma, Latin-Mathematics Sint-Gabriël College, Boechout

1995-1999: MSc Mathematics, minor Computer Science Antwerp University (UIA)
Magna cum Laude

MSc Dissertation:

Het ontdekken van Roll-Up afhankelijkheden in grote databanken
(*Discovering Roll-Up Dependencies in Large Databases*)

Awarded IBM Belgium price Computer Science 2000 for Masters dissertations.

Advisors:

Prof. dr. Jan Paredaens, Prof. dr. Jef Wijsen

1999-2003: PhD in Mathematics University of Antwerp

Doctoral dissertation:

Axiomatization and Deduction rules for the Frequency of Itemsets

Advisor:

Prof. dr. Jan Paredaens

Professional Experience

- October 1999 until September 2003. Research Assistant of the Science Foundation Flanders (FWO - Vlaanderen) in the Advanced Database Research and Modeling group of the Department of Mathematics and computer Science of the University of Antwerp.
- October 2003 until September 2006. Post-Doctoral Fellow of the Science Foundation Flanders (FWO-Vlaanderen) in the Advanced Database Research and Modeling group of the Department of Mathematics and computer Science of the University of Antwerp.
- From October 2006 on. Assistant Professor in the Information Systems group at the department of Mathematics and Computer Science of the Eindhoven University of Technology (TU/e).

Teaching Experience

- Teacher of the course "Data Mining (part of the Database course of Prof. Jan Paredaens, CS masters course) (15h/year, 2001-2006);
- Teaching assistant for the course "Computational Complexity" (Prof. Jan Van den Bussche, Math masters course) (15h, 2001, 2003-2005);
- Teaching assistant for different practical sessions: Formal Logics (2002, Dr. Patricia Geerts, CS BSc course), Artificial intelligence (2004-2006, Dr. Brigitte Verdonk, CS masters course), Programming Paradigms (2006, Dr. Brigitte Verdonk, CS masters course);
- Advisor for programming projects (BSc end-term projects) (approx. 2/year)
- Advisor/co-advisor for MSc dissertations (approx. 1.5/year).
- Advisor/co-advisor of PhD students: Nele Dexters (since Oktober 2003), Wim Lepage (since September 2005), Calin Garboni (since January 2006), Adriana Bechara Prado (since January 2006).
- Responsible lecturer for the Advanced Databases course, TU/e 2006 and 2007
- Lecturer for the Databases I course, TU/e 2006
- Responsible lecturer for the Data mining course, TU/e 2007

Scientific Awards

- IBM Belgium price Computer Science 2000 for Masters dissertations.
- KDDNet PKDD 2002 Best paper award for the paper:
Toon Calders, Bart Goethals. Mining All non-Derivable Frequent Itemsets. In Proceedings: *6th European Conference on Principles and Practice of Knowledge Discovery in Databases (PKDD'02)*: 74-85 (2002)
- KDDNet PKDD 2007 Best paper award for the paper:
Toon Calders, Szymon Jaroszewicz. Efficient AUC-Optimization for Classification. In Proceedings: *11th European Conference on Principles and Practice of Knowledge Discovery in Databases (PKDD'07)* (2007)

Study stays

- 18/11/2001 - 1/12/2001** Indiana University, Bloomington, USA. (Prof. Dirk Van Gucht)
- 24/2/2002 - 15/3/2002** University of British Columbia, Vancouver, Canada. (Prof. Raymond T. Ng and Prof. Laks V.S. Lakshmanan)
- 18/9/2002 - 16/12/2002** University of British Columbia, Vancouver, Canada. (Prof. Raymond T. Ng en Prof. Laks V.S. Lakshmanan)
- 22/5/2006 - 2/6/2006** Technical University of Szczecin, Poland. (Dr. Szymon Jaroszewicz)

Research Grants

- FWO *Krediet aan navorsers* 2002, 1 378 000 BEF “Genetic Algorithms and Data Mining for Natural Language Processing” (promotor, together with Prof. dr. Walter Daelemans (UA), and dr. Bart Naudts (UA))
- FWO *Krediet aan navorsers* 2005-2007, 7500 Euro “Complete and Heuristic Methods for Guaranteeing Privacy in Data Mining” (promotor)
- FWO *research project* 2005-2008, 243.000 Euro: “Foundations of inductive databases” (promotor, together with dr. Bart Goethals, Prof. dr. Jan Paredaens (UA), Prof. dr. Maurice Bruynooghe, Prof. dr. Hendrik Blockeel (KULeuven))
- EU project Inductive Queries for Mining Patterns and Models, FP6-516169, 2005-2008, 260.790 Euro (participant for UA (promotor Paredaens), partners: Prof. Dr. Saso Dzeroski (Jozef Stefan Institute Ljubljana, SI), Prof. Dr. Luc De Raedt (Albert-Ludwigs-Universitt Freiburg, D), Prof. Dr. Ross D. King (University of Wales Aberystwyth, GB), Prof. Dr. Heikki Mannila (University of Helsinki- Helsinki Institute for Information Technology, FIN), Prof. Dr. Jean-Francois Boulicaut (Institut National des Sciences Appliquees de Lyon, F))
- NWO *research project* 2007-2011, 187 371 Euro. “Generic adaptation framework” (promotor: prof. P. De Bra, co-promotors: Lora Aroyo, Toon Calders, Geert-Jan Houben, Mykola Pechinzkiy)

Other Scientific Activities

- Workshop organizer:
 - 2005 Belgian Data Mining Day, together with Bart Goethals, 27/5/2005.
 - 2007 Educational Data International Workshop on Educational Data Mining (EDM@ICALT’07) in conjunction with ICALT international conference on advanced learning techniques, together with J.E. Beck, M. Pechenizkiy, S.R. Viola 20/7/2007
 - 2007 International Workshop on Applying Data Mining in e-Learning (ADML’07). In conjunction with the 2nd European Conference on Technology Enhanced Learning (EC-TEL 2007), together with C. Romero, J.E. Beck, M. Pechenizkiy, S.R. Viola 20/9/2007
 - 2007 Dutch-Belgian Database Day (DBDBD)
- Member scientific comity: FNRS Doctoral school *Computational Intelligence and Learning* (2006)
- Member of the editorial board of the Springer Data Mining and Knowledge Discovery journal (DAMI).
- PC member:
 - 2004: PKDD workshop KDID, BNAIC, SAC-DM track
 - 2005: PKDD workshop KDID, BNAIC, SAC-DM track
 - 2006: PKDD workshop KDID, SAC-DM track, ECML/PKDD
 - 2007: PKDD workshop CMILE, SAC-DM track, ECML/PKDD, ACM SIGKDD, ICIC, ISPA, CBMS
- External reviewer (conferences, workshops):
 - Workshop on Frequent Itemset Mining Implementations (FIMI) 2003, ACM International Conference on Knowledge Discovery and Data Mining (KDD) 2004, 2005, 2006, ACM International Conference on Management of Data (SIGMOD) 2004, International Conference on

Database Theory (ICDT) 2005, International Conference on Principles of Knowledge Discovery in Databases (ECML/PKDD) 2005, International Conference on Extending Database Technology (EDBT) 2006, International Conference Pacific-Asian conference of Knowledge discovery in databases (PaKDD) 2006, IEEE International Conference on Data Mining (ICDM) 2006, SIAM Conference on Data mining (SDM) 2006, International Conference on Intelligent Computing (ICIC) 2006, International Conference on Mathematical Foundations in Computer Science (MFCS) 2007

- Reviewer (International Journals):
Elsevier: Discrete Applied Mathematics (DAM), Data & Knowledge Engineering (DK&E), Pattern Recognition Letters (PATREC), Information Systems (IS), Information Processing Letters (IPL),
IEEE: Transactions on Data and Knowledge Engineering (TKDE),
ACM: Transactions on Database Systems (TODS), Transactions on Knowledge Discovery in Databases (TKDD)
Springer: Acta Informatica (Acta), Springer Data Mining and Knowledge Discovery (DMKD), Springer Knowledge and Information Systems (KAIS),
Intelligent Data Analysis (IDA)