

CV

Filip Murlak

Contact data

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Personal data

date of birth 14th March 1980

citizenship Polish

languages Polish (mother tongue), English (fluent, CAE in 1996), Spanish (fluent), German (basic)

Employment

since Oct 2008 assistant professor, University of Warsaw (sabbatical Oct 2008 – Sept 2009)

Mar 2008 – Sep 2009 research fellow, University of Edinburgh

Education

2008 PhD in computer science (with honours), University of Warsaw

2005 MSc in mathematics (with honours), University of Warsaw

2004 MSc in computer science (with honours), University of Warsaw

Honours

2009 Witold Lipski Prize for Young Researchers in Computer Science

2009 nomination for the International Stefan Banach Prize for a Doctoral Dissertation in the Mathematical Sciences

2006 Best ICALP Paper (Track B)

2004 1st prize for the best MSc thesis in logic and its applications (awarded by Polish Association for Logic and Philosophy of Science)

Visits

Jan/Feb 2011 University of Saint Joseph, Macau, China (visiting lecturer)

Nov/Dec 2007 Université Paris VII, France (Polonium Project)

Oct 2006 Université de Lausanne, Switzerland (AutoMathA Project)

Apr 2006 Universität des Saarlandes, Saarbrücken, Germany

Sep 2004 – Feb 2005 Universitat de Valencia, Spain (Erasmus Programme)

Research

- automata theory, logic
- semistructured databases
- descriptive set theory, game theory

Publications

- XML** Between Tree Patterns and Conjunctive Queries: Is There Tractability Beyond Acyclicity?, joint work with Michał Ogiński and Marcin Przybyłko, MFCS 2012: 705–717
- Solutions in XML Data Exchange, joint work with Mikołaj Bojańczyk and Leszek Aleksander Kołodziejczyk, ICDT 2011: 102–113
 - Relational and XML Data Exchange, joint work with Marcelo Arenas, Pablo Barceló, and Leonid Libkin, Morgan & Claypool Publishers 2010, 112 pages
 - Certain Answers for XML Queries, joint work with Claire David and Leonid Libkin, PODS 2010:191–202
 - On the Tradeoff between Mapping and Querying Power in XML Data Exchange, joint work with Shunichi Amano, Claire David and Leonid Libkin, ICDT 2010: 155–164
 - XML Schema Mappings, joint work with Shun'ichi Amano and Leonid Libkin, PODS 2009, 33–42
- automata** Rabin-Mostowski Index Problem: A Step Beyond Deterministic Automata, joint work with Alessandro Facchini and Michał Skrzypczak, LICS 2013 (accepted).
- Definable Operations on Weakly Recognizable Sets of Trees, joint work with Jacques Duparc, Alessandro Facchini, FSTTCS 2011: 363–374
 - The Wadge Hierarchy of Max-Regular Languages, joint work with Jeremie Cabessa, Jacques Duparc, Alessandro Facchini, FSTTCS 2009: 121–132
 - Linear Game Automata: Decidable Hierarchy Problems for Stripped-Down Alternating Tree Automata, joint work with Jacques Duparc and Alessandro Facchini, CSL 2009: 225–239
 - The Wadge hierarchy of deterministic tree languages. Logical Methods in Computer Science Vol. 4 (4:15) 2008, 1–44
 - Weak index vs. Borel rank, STACS 2008: 573–584
 - On the topological complexity of tree languages, joint work with Andre Arnold, Jacques Duparc, and Damian Niwiński, in: Erich Graedel, Joerg Flum, Thomas Wilke (eds.), Logic and Automata: History and Perspectives, Texts in Logic and Games 2, Amsterdam University Press 2007, 9–29
 - On the topological complexity of weakly recognizable tree languages, joint work with Jacques Duparc, FCT 2007: 261–273
 - The Wadge hierarchy of deterministic tree languages (extended abstract). ICALP 2006: 408–419
 - On deciding topological classes of deterministic tree languages. CSL 2005: 428–441

Activities

- PCs** ICALP 2010, PODS 2011, MFCS 2011 (co-chair), CIKM 2011 (ACM Conference on Information and Knowledge Management), AMW 2011 (Alberto Mendelzon Workshop on Foundations of Data Management), CSL 2012, AMW 2013
- refereeing** LICS, PODS, ICALP, STACS, VLDB, ICDT, FoSSaCS, MFCS, FSTTCS, CSL, J. ACM, Theor. Comp. Sci., Theor. Inform. and Appl., Theory of Computing Systems