



11<sup>th</sup> International Workshop on  
Descriptive Complexity of Formal Systems

DCFS 2009, July 6–9, 2009

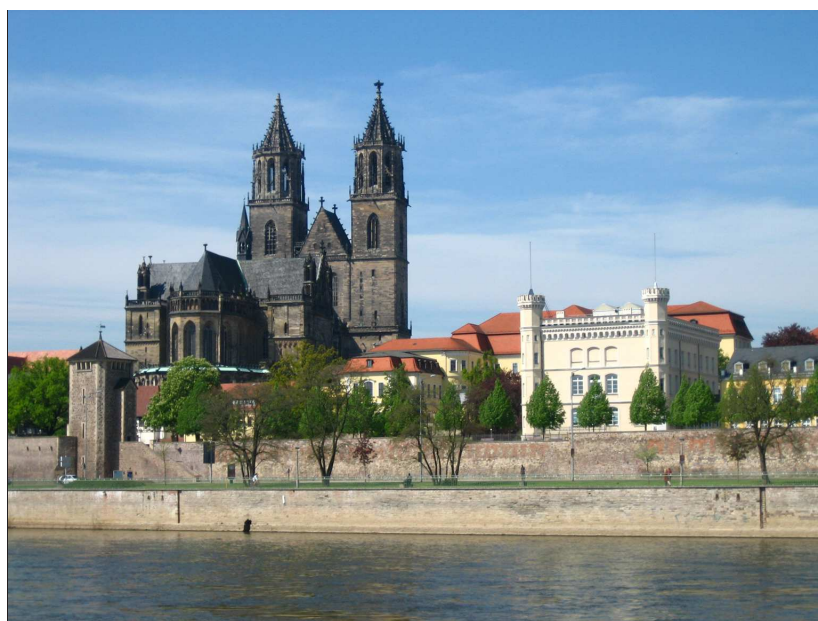
Magdeburg, Germany

Program



Monday, July 6	
8:30 – 9:15	Registration
9:15 – 9:30	Opening
9:30 – 10:30	<i>Invited Talk</i> JOHN BRZOWSKI (Waterloo, Canada): <i>Quotient Complexity of Regular Languages</i>
10:30 – 11:00	Coffee Break
11:00 – 11:30	MARTIN KUTRIB (Giessen, Germany), ANDREAS MALCHER (Giessen, Germany): <i>Bounded Languages Meet Cellular Automata with Sparse Communication</i>
11:30 – 12:00	FEVZI BELLI (Paderborn, Germany), MUTLU BEYAZIT (Paderborn, Germany): <i>Mutation of Directed Graphs – Corresponding Regular Expressions and Complexity of Their Generation</i>
12:00 – 14:00	Lunch
14:00 – 14:30	RUDOLF FREUND (Vienna, Austria), ANDREAS KLEIN (Ghent, Belgium), MARTIN KUTRIB (Giessen, Germany): <i>On the Number of Membranes in Unary P Systems</i>
14:30 – 15:00	PIERRE-YVES ANGRAND (Paris, France), SYLVAIN LOMBARDY (Paris, France), JACQUES SAKAROVITCH (Paris, France): <i>On the Number of Broken Derived Terms of a Rational Expression</i>
15:00 – 15:30	MARCO ALMEIDA (Porto, Portugal), NELMA MOREIRA (Porto, Portugal), ROGÉRIO REIS (Porto, Portugal): <i>Testing the Equivalence of Regular Languages</i>
15:30 – 16:00	Coffee Break
16:00 – 16:30	FRANZISKA BIEGLER (London, Canada), MARK DALEY (London, Canada), IAN MCQUILLAN (Saskatoon, Canada): <i>On the Shuffle Automaton Size for Words</i>
16:30 – 17:00	GALINA JIRÁSKOVÁ (Košice, Slovakia), ALEXANDER OKHOTIN (Turku, Finland): <i>Nondeterministic State Complexity of Positional Addition</i>
17:00 – 17:30	VILIAM GEFFERT (Košice, Slovakia), LUBOMÍRA IŠTOŇOVÁ (Košice, Slovakia): <i>Translation from Classical Two-Way Automata to Pebble Two-Way Automata</i>

Tuesday, July 7	
9:00 – 10:00	<i>Invited Talk</i> CHRISTEL BAIER (Dresden, Germany): <i>Probabilistic Automata over Infinite Words: Expressiveness, Efficiency, and Decidability</i>
10:00 – 10:30	Coffee Break
10:30 – 11:00	REMCO LOOS (Cambridge, United Kingdom), FLORIN MANEA (Bucharest, Romania), VICTOR MITRANA (Valencia, Spain): <i>Small Universal Accepting Networks of Evolutionary Processors with Filtered Connections</i>
11:00 – 11:30	ERZSÉBET CSUHAJ-VARJÚ (Budapest, Hungary), GYÖRGY VASZIL (Budapest, Hungary): <i>On the Size Complexity of Non-Returning Context-Free PC Grammar Systems</i>
11:30 – 12:00	M. SAKTHI BALAN (Bangalore, India): <i>Serializing the Parallelism in Parallel Communicating Pushdown Automata Systems</i>
12:00 – 14:00	Lunch
14:00 – 15:00	JÜRGEN DASSOW: <i>Ten Years DCFS</i>
15:00 – 15:30	Discussion / Open Problem Session / Stimulations
15:30 – 15:50	Coffee Break
15:50 – 16:30	Business Meeting of Working Group <i>Descriptive Complexity</i>
17:00	Visit of the Cathedral



Cathedral of Magdeburg

Wednesday, July 8	
9:00 – 10:00	<i>Invited Talk</i> NICOLE SCHWEIKARDT (Frankfurt, Germany): <i>The Descriptive Complexity of Fragments of Monadic Second-Order Logic</i>
10:00 – 10:30	Coffee Break
10:30 – 11:00	PIERLUIGI FRISCO (Edinburgh, United Kingdom) and OSCAR H. IBARRA (Santa Barbara, USA): <i>On languages accepted by P/T systems composed of joins</i>
11:00 – 11:30	RALF STIEBE (Magdeburg, Germany), SHERZOD TURAEV (Tarragona, Spain): <i>Capacity Bounded Grammars and Petri Nets</i>
11:30 – 13:00	Lunch
13:00 – 21:00	Excursion to Tangermünde (1000 years old town, partly looking like a medieval town), monastery in Jerichow (late Romanesque style), crossing of waterways (Midland canal crosses river Elbe), dinner in Hohenwarthe



Tangermünde



Jerichow



Canal Bridge

Thursday, July 9	
9:00 – 10:00	<i>Invited Talk</i> ANDREI PĂUN (Bucharest, Romania): <i>The Nondeterministic Waiting Time Algorithm: A Review</i>
10:00 – 10:30	Coffee Break
10:30 – 11:00	TOMAŠ MASOPUST (Brno, Czech Republic), ALEXANDER MEDUNA (Brno, Czech Republic): <i>Descriptive Complexity of Three-Nonterminal Scattered Context Grammars: An Improvement</i>
11:00 – 11:30	HERMANN GRUBER (Giessen, Germany), MARKUS HOLZER (Giessen, Germany), MARTIN KUTRIB (Giessen, Germany): <i>On Measuring Non-Recursive Trade-Offs</i>
11:30 – 12:00	YUAN GAO (London, Canada), SHENG YU (London, Canada): <i>State complexity Approximation</i>
12:00 – 12:15	Closing



Millenium Tower in Magdeburg

We acknowledge the support by

