

Table of Contents

Invited Lectures

Languages Recognizable by Quantum Finite Automata	1
<i>Rūsiņš Freivalds</i>	
The Language, the Expression, and the (small) Automaton	16
<i>Jacques Sakarovitch</i>	

Technical Contributions

Minimization of Non-Deterministic Automata with Large Alphabets	32
<i>Parosh Aziz Abdulla, Johann Deneux, Lisa Kaati and Marcus Nilsson</i>	
Simulating Two-dimensional Recognizability by Pushdown and Queue Automata	44
<i>Marcella Anselmo and Maria Madonia</i>	
Component Composition Preserving Behavioural Contracts Based on Communication Traces	55
<i>Arnaud Bailly, Mireille Clerbout and Isabelle Simplot-Ryl</i>	
Strong Retiming Equivalence of Synchronous Schemes	67
<i>Miklós Bartha</i>	
Prime Normal Form and Equivalence of Simple Grammars	79
<i>Cédric Bastien, Jurek Czyzowicz, Wojciech Fraczak and Wojciech Rytter</i>	
An Incremental Algorithm for Constructing Minimal Deterministic Finite Cover Automata	91
<i>Cezar Câmpeanu, Andrei Păun and Jason R. Smith</i>	
Finite Automata and Unions of Regular Patterns with Bounded Constant Segments	105
<i>Antonio Cano and Pedro García</i>	
Inside Vaucanson	117
<i>Thomas Claveirole, Sylvain Lombardy, Sarah O'Connor, Louis-Noël Pouchet and Jacques Sakarovitch</i>	
Deterministic Recognition of Trees Accepted by a Linear Pushdown Tree Automaton	129
<i>Akio Fujiyoshi and Ikuo Kawaharada</i>	

X Table of Contents

Shorter Regular Expressions from Finite-state Automata	141
<i>Yo-Sub Han and Derick Wood</i>	
Wind in the Willows – Generating Music by Means of Tree Transducers . .	153
<i>Johanna Högberg</i>	
On Deterministic Catalytic Systems	164
<i>Oscar H. Ibarra and Hsu-Chun Yen</i>	
Restricting the Use of Auxiliary Symbols for Restarting Automata	177
<i>Tomasz Jurdziński and Friedrich Otto</i>	
A Class of Rational n -WFSM Auto-Intersections	189
<i>André Kempe, Jean-Marc Champarnaud, Jason Eisner, Franck Guingne and Florent Nicart</i>	
Experiments with Deterministic ω -Automata for Formulas of Linear Temporal Logic	201
<i>Joachim Klein and Christel Baier</i>	
Computing Affine Hulls over \mathbb{Q} and \mathbb{Z} from Sets Represented by Number Decision Diagrams	215
<i>Louis Latour</i>	
Tree Automata and XPath on Compressed Trees	227
<i>Markus Lohrey and Sebastian Maneth</i>	
Deeper Connections between LTL and Alternating Automata	241
<i>Radek Pelánek and Jan Strejček</i>	
The Structure of Subword Graphs and Suffix Trees of Fibonacci Words . . .	253
<i>Wojciech Rytter</i>	
Observations on Determinization of Büchi Automata	265
<i>Christoph Schulte Althoff, Wolfgang Thomas and Nico Wallmeier</i>	
The Interval Rank of Monotonic Automata	276
<i>Tamara Shcherbak</i>	
Compressing XML Documents Using Recursive Finite State Automata . . .	285
<i>Hariharan Subramanian and Priti Shankar</i>	
Non-backtracking Top-down Algorithm for Checking Tree Automata Containment	297
<i>Tadahiro Suda and Haruo Hosoya</i>	
Size Reduction of Multitape Automata	310
<i>Hellis Tamm, Matti Nykänen and Esko Ukkonen</i>	

Robust Spelling Correction	322
<i>Manuel Vilares, Juan Otero and Jesús Vilares</i>	
On Two-dimensional Pattern Matching by Finite Automata	332
<i>Jan Žďárek and Bořivoj Melichar</i>	
Poster Abstracts	
Incremental and Semi-Incremental Construction of Pseudo-Minimal Automata	344
<i>Jan Daciuk, Denis Maurel and Agata Savary</i>	
Is Learning RFSAs Better Than Learning DFAs?	346
<i>Pedro García, José Ruiz, Antonio Cano and Gloria Alvare</i>	
Learning Stochastic Finite Automata for Musical Style Recognition	348
<i>Colin de la Higuera, Frédéric Piat and Frédéric Tantini</i>	
Simulation of Soliton Circuits	350
<i>Miklós Krész</i>	
Acyclic Automata With Easy-to-Find Short Regular Expressions	352
<i>José João Morais, Nelma Moreira and Rogério Reis</i>	
On the Equivalence Problem for Programs with Mode Switching	354
<i>Rimma I. Podlovchenko, Dmitry M. Rusakov and Vladimir A. Zakharov</i>	
Automata and AB-Categorial Grammars	356
<i>Isabelle Tellier</i>	
On a Class of Bijective Binary Transducers with Finitary Description despite Infinite State Set	358
<i>Michael Vielhaber and Mónica del Pilar Canales Ch.</i>	
Author Index	360