

12:30 12:45	Break
12:45 13:45	ERICH GRÄDEL: <i>Infinite Games (II)</i> – Tutorial
Victor Mitrana	
13:45 15:45	Lunch
15:45 17:15	CHRISTOS NOMIKOS and PANOS RONDOGIANNIS: <i>Locally Stratified Boolean Grammars</i>
Friedrich Otto	ALEXANDER OKHOTIN: <i>Unambiguous Boolean Grammars</i>
	YO-SUB HAN and DERICK WOOD: <i>Generalizations of One-Deterministic Regular Languages</i>
17:15 17:45	Coffee Break
17:45 18:45	FRANZ BAADER, JAN HLADIK and RAFAEL PEÑALOZA: <i>SI! Automata Can Show PSPACE Results for Description Logics</i>
Nissim Francez	LIVIU P. DINU, RADU GRAMATOVICI and FLORIN MANEA: <i>On the Syllabification of Words via Go-Through Automata</i>
18:45 19:00	Break
19:00 20:00	NISSIM FRANCEZ and MICHAEL KAMINSKI: <i>Extensions of Pregroup Grammars and Their Correlated Automata</i> – Invited Talk
Erich Grädel	
20:30	Visit to the City Hall

Wednesday, April 4	
9:15 10:45	DEIAN TABAKOV and MOSHE VARDI: <i>Model Checking Buechi Specifications</i>
Helmut Jürgensen	BENEDIKT BOLLIG and DIETRICH KUSKE: <i>Muller Message-Passing Automata and Logics</i>
	PAVEL MARTJUGIN: <i>A Series of Slowly Synchronizable Automata with a Zero State Over a Small Alphabet</i>
10:45 11:15	Coffee Break
11:15 12:15	GENNARO PARLATO, SALVATORE LA TORRE, MARGHERITA NAPOLI and MIMMO PARENTE: <i>Verification of Succinct Hierarchical State Machines</i>
Jürgen Dassow	MIKLÓS KRÉSZ: <i>Nondeterministic Soliton Automata with a Single External Vertex</i>
12:15 12:30	Break
12:30 13:30	ERICH GRÄDEL: <i>Infinite Games (III)</i> – Tutorial
Victor Mitrana	
13:30	Closing

We acknowledge the support by:



1st International Conference on Language and Automata Theory and Applications

LATA 2007, March 29 - April 4, 2007

Tarragona, Spain

Programme



Thursday, March 29	
8:00 9:00	Registration
9:00 9:15	Opening
9:15 10:45	TOMÁŠ MASOPUST and ALEXANDER MEDUNA: <i>Descriptive Complexity of Grammars Regulated by Context Conditions</i>
Francine Blanchet-Sadri	GUANGWU LIU, CARLOS MARTÍN-VIDE, ARTO SALOMAA and SHENG YU: <i>State Complexity of Basic Operations Combined with Reversal</i>
	HENNING FERNAU and JÜRGEN DASSOW: <i>Comparison of Some Descriptive Complexities of OL Systems Obtained by a Unifying Approach</i>
10:45 11:15	Coffee Break
11:15 12:15	VINAY CHOUDHARY, ANAND KUMAR SINHA and SOME-NATH BISWAS: <i>Universality for Nondeterministic Logspace</i>
Henning Bordihn	HERMANN GRUBER and MARKUS HOLZER: <i>Computational Complexity of NEA Minimization for Finite and Unary Languages</i>
12:15 12:30	Break
12:30 14:00	VOLKER DIEKERT: <i>Equations: From Words to Graph Products (I)</i> – Tutorial
Zoltán Ésik	
14:00 16:00	Lunch
16:00 17:30	GRIGORIY POVAROV: <i>Descriptive Complexity of the Hamming Neighborhood of a Regular Language</i>
Carsten Damm	BAPTISTE BLANPAIN, JEAN-MARC CHAMPARNAUD and JEAN-PHILIPPE DUBERNARD: <i>Geometrical Languages</i>
	OLIVIER BODINI, THOMAS FERNIQUE and ERIC REMILA: <i>A Characterization of Flip-accessibility for Rhombus Tilings of the Whole Plane</i>
17:30 18:00	Coffee Break
18:00 19:30	BERND BORCHERT and KLAUS REINHARDT: <i>Deterministically and Sudoku-Deterministically Recognizable Picture Languages</i>
Pál Dömösi	RALF STIEBE: <i>Slender Siromoney Matrix Languages</i>
	KAZUYA OGASAWARA and SATOSHI KOBAYASHI: <i>Stochastically Approximating Tree Grammars by Regular Grammars and Its Application to Faster ncRNA Family Annotation</i>

Friday, March 30	
8:45 10:15 <i>Jozef Gruska</i>	ANDREAS MALETTI: <i>Compositions of Extended Top-down Tree Transducers</i>
	EKATERINA KOMENDANTSKAYA: <i>First-order Deduction in Neural Networks</i>
	PÁL DÖMÖSI: <i>Automata Networks without any Letichevsky Criteria</i>
10:15 10:45	Coffee Break
10:45 12:15 <i>Neil Immerman</i>	HENNING BORDIHN and GYÖRGY VASZIL: <i>On Leftmost Derivations in CD Grammar Systems</i>
	SUNA BENSCH: <i>An Approach to Parallel Mildly Context-Sensitive Grammar Formalisms</i>
	YURII ROGOZHIN, CARLOS MARTÍN-VIDE and ARTIOM ALHAZOV: <i>Networks of Evolutionary Processors with two Nodes are Unpredictable</i>
12:15 12:30	Break
12:30 14:00 <i>Zoltán Ésik</i>	VOLKER DIEKERT: <i>Equations: From Words to Graph Products (II)</i> – Tutorial
14:00 16:00	Lunch
16:00 17:30 <i>Martin Kutrib</i>	VICTOR SELIVANOV: <i>Classifying Omega-Regular Partitions</i>
	PAOLO BOLDI, VIOLETTA LONATI, ROBERTO RADICIONI and SANTINI MASSIMO: <i>The Number of Convex Permutominoes</i>
	PAWEL BATURO and WOJCIECH RYTTER: <i>Occurrence and Lexicographic Properties of Standard Sturmian Words</i>
17:30 18:00	Coffee Break
18:00 19:00 <i>Volker Diekert</i>	NEIL IMMERMAN: <i>Nested Words</i> – Invited Talk
19:30	Visit to the Old City

Monday, April 2	
9:00 10:30 <i>Markus Holzer</i>	FRANCINE BLANCHET-SADRI, KEVIN CORCORAN and JENELL NYBERG: <i>Fine and Wilf’s Periodicity Result on Partial Words and Consequences</i>
	COSTAS ILIOPOULOS, BOŘIVOJ MELICHAR, JAN ŠUPOL and INUKA JAYASEKERA: <i>Weighted Degenerated Approximate Pattern Matching</i>
	KRYSZYNA STAWIKOWSKA and EDWARD OCHMAŃSKI: <i>On Star-Free Trace Languages and their Lexicographic Representations</i>
10:30 11:00	Coffee Break
11:00 11:30 <i>Lucian Ilie</i>	ZOLTÁN L. NÉMETH: <i>On the Regularity of Binoid Languages: A Comparative Approach</i>

11:30 12:30 <i>Lucian Ilie</i>	MARKUS LOHREY and BENJAMIN STEINBERG: <i>The Submonoid and Rational Subset Membership Problems for Graph Groups</i>
	CAMILO THORNE: <i>Categorical Module Grammars of Bounded Size have Finite Bounded Density</i>
12:30 12:45	Break
12:45 13:45 <i>Victor Mitrana</i>	ERICH GRÄDEL: <i>Infinite Games (I)</i> – Tutorial
13:45 15:45	Lunch
15:45 17:15 <i>Satoshi Kobayashi</i>	MATHIEU POUDRET, JEAN-PAUL COMET, PASCALE LE GALL, AGNÈS ARNOULD and PHILIPPE MESEURE: <i>Topology-based Geometric Modelling for Biological Cellular Processes</i>
	FARID ABLAYEV and AIDA GAINUTDINOVA: <i>Classical Simulation Complexity of Quantum Branching Programs</i>
	MARTIN KOCHOL, NADA KRIVOŇÁKOVÁ, SILVIA SMEJOVÁ and KATARÍNA ŠRANKOVÁ: <i>Reductions of Matrices Associated with Nowhere-Zero Flows</i>
17:15 17:45	Coffee Break
17:45 18:45 <i>Reinhard Rapp</i>	JUNTAE YOON and SEONHO KIM: <i>Rule-based Word Spacing in Korean Based on Lexical Information Extracted from a Corpus</i>
	JULIEN BOURDAILLET and JEAN-GABRIEL GANASCIA: <i>Practical Block Sequence Alignment with Moves</i>
18:45 19:00	Break
19:00 20:00 <i>Sheng Yu</i>	HELMUT JÜRGENSEN: <i>Synchronization</i> – Invited Talk

Tuesday, April 3	
9:00 10:30 <i>Alexander Okhotin</i>	PAVLOS ANTONIOU, MAXIME CROCHEMORE, COSTAS ILIOPOULOS and PIERRE PETERLONGO: <i>Application of Suffix Trees for the Acquisition of Common Motifs with Gaps in a Set of Strings</i>
	FRANTIŠEK MRÁZ, FRIEDRICH OTTO and MARTIN PLÁTEK: <i>Free Word-Order and Restarting Automata</i>
	MARTIN KUTRIB and JENS REIMANN: <i>Succinct Description of Regular Languages by Weak Restarting Automata</i>
10:30 11:00	Coffee Break
11:00 12:30 <i>Holger Petersen</i>	HARTMUT MESSERSCHMIDT and FRIEDRICH OTTO: <i>On Determinism Versus Non-Determinism for Restarting Automata</i>
	MARTIN KUTRIB and ANDREAS MALCHER: <i>Fast Reversible Language Recognition Using Cellular Automata</i>
	PIETRO DI LENA and LUCIANO MARGARA: <i>Computational Complexity of Dynamical Systems: the Case of Cellular Automata</i>