

5th International Conference on Languages
and Automata Theory and Applications

LATA 2011, May 26 - 31, 2011

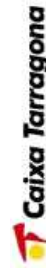
Tarragona, Spain



Programme

Tuesday, May 31	
9:00 – 9:50 Shunsuke Inenaga	JÉRÔME LEROUX: <i>Vector Addition System Reachability Problem: A Short Self-Contained Proof (II)</i> – Invited Tutorial
9:50 – 10:00	Break
10:00 – 11:15 Jérôme Leroux	MARTIN HUSCHENBETT: <i>Models for Quantitative Distributed Systems and Multi-Valued Logics</i>
	HOLGER BOCK AXELSEN, ROBERT GLÜCK: <i>A Simple and Efficient Universal Reversible Turing Machine</i>
	KÉVIN PERROT, ÉRIC RÉMILA: <i>Avalanche Structure in the Kadanoff Sand Pile Model</i>
11:15 – 11:45	Coffee Break
11:45 – 12:35 Johanna Högborg	PASCAL CARON, JEAN-MARC CHAMPARNAUD, LUDOVIC MIGNOT: <i>Partial Derivatives of an Extended Regular Expression</i>
	MARCUS GELDERIE: <i>Classifying Regular Languages via Cascade Products of Automata</i>
12:35 – 12:45	Break
12:45 – 13:35 Émilie Charlier	KEVIN KNIGHT: <i>Automata for Deciphering Natural Language</i> – Invited Talk
13:35 – 13:50	Closing
13:50	Lunch

We acknowledge the support by:



Thursday, May 26	
8:00 – 8:50	Registration
8:50 – 9:00	Opening
9:00 – 9:50 Sheng Yu	BAKHADYR KHOUSSAINOV: <i>Automatic Structures and Groups (I)</i> – Invited Tutorial
9:50 – 10:00	Break
10:00 – 11:40 Benedek Nagy	ARTO SALOMAA, KAISALOMAA, SHENG YU: <i>Undecidability of the State Complexity of Composed Regular Operations</i>
	ALEXEI LISITSA, IGOR POTAPOV, RAFIQ SALEH: <i>Planarity of Knots, Register Automata and LogSpace Computability</i>
	ALEXANDER OKHOTIN, KAI SALOMAA: <i>Descriptive Complexity of Unambiguous Nested Word Automata</i>
	FRANCINE BLANCHET-SADRI, KEVIN BLACK, ANDREW ZEMKE: <i>Unary Pattern Avoidance in Partial Words Dense with Holes</i>
11:40 – 12:10	Coffee Break
12:10 – 13:50 Narad Rampersad	NATALIE SCHLUTER: <i>Restarting Automata with Auxiliary Symbols and Small Lookahead</i>
	BENEDEK NAGY, FRIEDRICH OTTO: <i>Globally Deterministic CD-Systems of Stateless R(1)-Automata</i>
	LUCA ACETO, MATTEO CIMINI, ANNA INGOLFSDOTTIR, MOHAMMAD REZA MOUSAVI, MICHEL A. RENIERS: <i>Rule Formats for Distributivity</i>
	MARCELLA ANSELMO, DORA GIAMMARRESI, MARIA MADONIA: <i>Classification of String Languages via Tiling Recognizable Picture Languages</i>
13:50 – 15:30	Lunch
15:30 – 16:20 Francine Blanchet-Sadri	DANA ANGLUIN, JAMES ASPNES, RAONNE BARBOSA VARGAS: <i>Mutation Systems</i>
	JÜRGEN DASSOW, FLORIN MANEA, BIANCA TRUTHE: <i>Networks of Evolutionary Processors with Subregular Filters</i>
16:20 – 16:30	Break
16:30 – 17:20 Alexander Okhotin	NARAD RAMPERSAD: <i>Abstract Numeration Systems</i> – Invited Talk

Friday, May 27	
9:00 – 9:50 Sheng Yi	BAKHADYR KHOUSSAINOV: <i>Automatic Structures and Groups (II)</i> – Invited Tutorial
9:50 – 10:00	Break
10:00 – 11:40 Henrik Björklund	MIROSLAW KOWALUK, ANDRZEJ LINGAS, EVA-MARTA LUNDELL: <i>Unique Small Subgraphs are not Easier to Find</i> ALBERTO POLICRITI, ALEXANDRU I. TOMESCU: <i>Well-quasi-ordering Hereditarily Finite Sets</i> ROBERT BRIJDER, HENDRIK BLOCKEEL: <i>Characterizing Compressibility of Disjoint Subgraphs with NLC Grammars</i> CHRISTINA JANSEN, JONATHAN HEINEN, JOOST-PIETER KATOEN, THOMAS NOLL: <i>A Local Greibach Normal Form for Hyperedge Replacement Grammars</i>
11:40 – 12:10	Coffee Break
12:10 – 13:50 Robert Brijder	GRÉGOIRE LAURENCE, AURÉLIEN LEMAY, JOACHIM NIEHREN, SŁAWEK STAWORKO, MARC TOMMASI: <i>Normalization of Sequential Top-Down Tree-to-World Transducers</i> PAVEL LABATH, BRANISLAV ROVAN: <i>Simplifying DPDA Using Supplementary Information</i> KARIN QUAAAS: <i>On the Interval-Bound Problem for Weighted Timed Automata</i> BENOÎT DELAHAYE, KIM G. LARSEN, AXEL LEGAY, MIKKEL L. PEDERSEN, ANDRZEJ WASOWSKI: <i>Decision Problems for Interval Markov Chains</i>
13:50 – 15:30	Lunch
15:30 – 16:45 Bakhadyr Khoussainov	RUTH CORRAN, MICHAEL HOFFMANN, DIETRICH KUSKE, RICHARD M. THOMAS: <i>Singular Artin Monoids of Finite Coxeter Type are Automatic</i> ÉMILIE CHARLIER, MIKE DOMARATZKI, TERO HARJU, JEFFREY SHALLIT: <i>Finite Orbits of Language Operations</i> JANA HADRÁVOVÁ: <i>The Block Structure of Successor Morphisms</i>
17:30	Visit to the Old City ¹

Monday, May 30	
9:00 – 9:50 Shunsuke Inenaga	JÉRÔME LEROUX: <i>Vector Addition System Reachability Problem: A Short Self-Contained Proof (I)</i> – Invited Tutorial
9:50 – 10:00	Break
10:00 – 11:40 Kevin Knight	KRISHNENDU CHATTERJEE, THOMAS A. HENZINGER, FLORIAN HORN: <i>The Complexity of Request-Response Games</i> MICHEL RIGO, ÉLISE VANDOMME: <i>Syntactic Complexity of Ultimately Periodic Sets of Integers</i> AGATA BARECKA, WITOLD CHARATONIK: <i>The Parameterized Complexity of Chosen Problems for Finite Automata on Trees</i> KRISHNENDU CHATTERJEE, NATHANAEËL FIJALKOW: <i>Finite Languages</i>
11:40 – 12:10	Coffee Break
12:10 – 13:50 Thomas Colcombet	DANIEL REIDENBACH, MARKUS L. SCHMID: <i>Finding Shuffled Words that Represent Optimal Scheduling of Shared Memory Access</i> MARTIN BERGLUND, HENRIK BJÖRKLUND, JOHANNA HÖGBERG: <i>Recognizing Shuffled Languages</i> EHUD S. CONLEY, SHMUEL T. KLEIN: <i>Improved Alignment Based Algorithm for Multilingual Text Compression</i> LASSE NIELSEN, FRITZ HENGLEIN: <i>Bit-Coded Regular Expression Parsing</i>
13:50 – 15:30	Lunch
15:30 – 16:20 Florian Horn	JOHN CASE, SANJAY JAIN, TRONG DAO LE, YUH SHIN ONG, PAVEL SEMUKHIN, FRANK STEPHAN: <i>Automatic Learning of Subclasses of Pattern Languages</i> JACEK MARCINIĘC: <i>Tarski's Principle, Categorical Grammars and Learnability</i>
16:20 – 16:30	Break
16:30 – 17:20 Sanjay Jain	THOMAS COLCOMBET: <i>Green's Relations and their Use in Automata Theory</i> – Invited Talk

¹Guided visit to the Roman Tarragona offered by the Patronat Municipal de Turisme de Tarragona.