

FCT 2017 Scientific Program

Monday September 11 (morning)

8:15-8:50	Welcome Coffee and Registration
8:50-9:00	Conference Opening
9:00-10:00	Invited Talk: Anca Muscholl (Bordeaux) <i>Chair: Marc Zeitoun</i>
	<i>A Tour of Recent Results on Word Transducers</i>
10:00-10:20	Coffee break
10:20-12:00	Automata & Logic <i>Chair: Jérôme Leroux</i>
	Christof Löding and Christopher Spinrath <i>Decision Problems for Subclasses of Rational Relations over Finite and Infinite Words</i>
	Pierre Ganty and Elena Gutiérrez <i>Parikh Image of Pushdown Automata</i>
	Emmanuel Filiot, Nicolas Mazzocchi and Jean-François Raskin <i>Decidable Weighted Expressions with Presburger Combinators</i>
	Kord Eickmeyer and Ken-Ichi Kawarabayashi <i>FO Model Checking on Map Graphs</i>
12:00-13:40	Lunch

Monday September 11 (afternoon)

13:40-14:40	Invited Talk: Martin Dietzfelbinger (Ilmenau)	<i>Chair: Jyrki Katajainen</i>
	<i>Optimal Dual-Pivot Quicksort: Exact Comparison Count</i>	
14:40-15:30	Routing Algorithms	<i>Chair: Jyrki Katajainen</i>
	Indranil Banerjee and Dana Richards <i>New Results on Routing via Matchings on Graphs</i>	
	Till Fluschnik, Marco Morik and Manuel Sorge <i>The Complexity of Routing with Few Collisions</i>	
15:30-15:50	Coffee break	
15:50-17:05	Algorithms	<i>Chair: Aris Pagourtzis</i>
	Gianluca De Marco, Tomasz Jurdziński, Michał Rózański and Grzegorz Stachowiak <i>Subquadratic Non-adaptive Threshold Group Testing</i>	
	Markus Bläser, B. V. Raghavendra Rao and Jayalal Sarma <i>Testing Polynomial Equivalence by Scaling Matrices</i>	
	Maxime Crochemore, Alice Héliou, Gregory Kucherov Laurent Mouchard, Solon Pissis and Yann Ramusat <i>Minimal Absent Words in a Sliding Window & Applications to On-Line Pattern Matching</i>	
17:05-17:15	Short pause	
17:15-18:05	Formal Languages	<i>Chair: Holger Petersen</i>
	Max Kanovich, Stepan Kuznetsov and Andre Scedrov <i>Undecidability of the Lambek Calculus Extended with Subexponential and Bracket Modalities</i>	
	Joost Engelfriet and Andreas Maletti <i>Multiple Context-free Tree Grammars and Multi-Component Tree Adjoining Grammars</i>	
18:05-18:30	Business Meeting	
18:45-19:00	Conference Picture	
19:00-21:00	Welcome Cocktail	

Tuesday 12 September

8:30-9:00	Welcome Coffee
9:00-10:00	Invited Talk in memory of Z. Esik: Jean-Éric Pin (Paris). <i>Chair: Pascal Weil</i>
	<i>Some Results of Zoltán Ésik on Regular Languages</i>
10:00-10:20	Coffee break
10:20-12:00	Models of Computation & Complexity <i>Chair: Hugo Gimbert</i>
	Jérémie Cabessa and Olivier Finkel <i>Expressive Power of Evolving Neural Networks Working on Infinite Input Streams</i>
	Holger Petersen <i>Busy Beaver Scores and Alphabet Size</i>
	Pushkar Joglekar, B. V. Raghavendra Rao, Siddhartha Sivakumar <i>On Weak-Space Complexity over Complex Numbers</i>
	Alexander Shen <i>Automatic Kolmogorov Complexity and Normality Revisited</i>
12:00-13:40	Lunch
13:40-14:40	Invited Talk: Juraj Hromkovič (Zürich) <i>Chair: Ralf Klasing</i>
	<i>What One Has to Know when Attacking P vs. NP</i>
14:40-15:30	Best Papers <i>Chair: Ralf Klasing</i>
	Matthias Bentert, Till Fluschnik, André Nichterlein, Rolf Niedermeier <i>Parameterized Aspects of Triangle Enumeration (BEST STUDENT PAPER)</i>
	Albert Atserias, Phokion Kolaitis and Simone Severini <i>Generalized Satisfiability Problems via Operator Assignments (BEST PAPER)</i>
15:30-15:50	Coffee break
15:50-17:05	Graph Algorithms <i>Chair: Marthe Bonamy</i>
	Nicolas Bousquet, Aline Parreau and Arnaud Mary <i>Token Jumping in Minor-Closed Classes</i>
	Charis Papadopoulos and Spyridon Tzimas <i>Polynomial-Time Algorithms for the Subset Feedback Vertex Set Problem on Interval Graphs and Permutation Graphs</i>
	George Manoussakis <i>Listing all Fixed Length Simple Cycles in Sparse Graphs in Optimal Time</i>
18:30-23:00	Social Event and Banquet
	18:30-19:30: Guided visit in the city centre. 20:00-23:00 Banquet dinner at restaurant Café du Port .

Wednesday 13 September

8:30-9:00	Welcome Coffee
9:00-10:00	Invited Talk: Thomas Colcombet (Paris) <i>Chair: Marc Zeitoun</i>
	<i>Automata and Program Analysis</i>
10:00-10:25	Tropical Algebra <i>Chair: Marc Zeitoun</i>
	Dima Grigoriev and Vladimir Podolskii <i>Tropical Combinatorial Nullstellensatz and Fewnomials Testing</i>
10:25-10:45	Coffee break
10:45-12:25	Quantum Computation & Boolean Functions <i>Chair: Cyril Gavoille</i>
	Luc Sanselme and Simon Perdrix <i>Determinism and Computational Power of Real Measurement-based Quantum Computation</i>
	Anurag Anshu, Peter Høyer, Mehdi Mhalla and Simon Perdrix <i>Contextuality in Multipartite Pseudo-Telepathy Graph Games</i>
	Endre Boros, Ondrej Cepek and Kazuhisa Makino <i>Strong Duality in Horn Minimization</i>
	Christian Engels, B. V. Raghavendra Rao and Karteek Sreenivasaiah <i>On $\Sigma \wedge \Sigma \wedge \Sigma$ Circuits: The Role of Middle Σ Fan-in, Homogeneity and Bottom Degree</i>
12:25-14:05	Lunch
14:05-15:45	Distributed Algorithms & Mobile Agents <i>Chair: Arnaud Casteigts</i>
	Aris Pagourtzis, Giorgos Panagiotakos and Dimitris Sakavalas <i>Reliable Communication via Semilattice Properties of Partial Knowledge</i>
	Tomasz Jurdzinski and Michał Rózański <i>Deterministic Oblivious Local Broadcast in the SINR Model</i>
	Andreas Bärtschi and Thomas Tschager <i>Energy-Efficient Fast Delivery by Mobile Agents</i>
	Dariusz Dereniowski, Andrzej Lingas, Mia Persson, Dorota Urbańska and Paweł Żyliński <i>The Snow Team Problem (Clearing Directed Subgraphs by Mobile Agents)</i>
15:45-16:00	Conference Closing and Coffee