



Developments in Language Theory (DLT 2011)

Università degli Studi di Milano-Bicocca, Italy

Conference program

Monday, 18th of July – (Building U6, floor -1, near to Aula Martini)

16:00 – 18:00: [Registration](#)

Tuesday, 19th of July – (Building U6, floor -1, Aula Martini)

8:00 – 9:00: [Registration](#)

9:00 – 9:30: [Opening Session](#), chaired by **Giancarlo Mauri**

Welcome Speech – Marcello Fontanesi, Rector of the University of Milano-Bicocca

Opening Speech – Juhani Karhumäki, Chair of the DLT Steering Committee

Session Chair: Juhani Karhumäki

9:30 – 10:30: Maxime Crochemore (Invited Talk)

Hunting redundancies in strings

10:30 – 11:00: [Coffee break](#)

Session Chair: Juhani Karhumäki

11:00 – 11:30: Mike Domaratzki and Narad Rampersad, *Abelian primitive words*

11:30 – 12:00: Francine Blanchet-Sadri and Sean Simmons, *Avoiding abelian powers in partial words*

12:00 – 12:30: Elise Vaslet and Narad Rampersad, *On highly repetitive and power free words*

12:30 – 14:00: [Lunch](#)

13:00 - 14:00: **Poster Session**

Session Chair: Alberto Bertoni

14:00 – 15:00: Antonio Restivo (Invited Talk)

Some remarks on automata minimality

Session Chair: Alberto Bertoni

15:00 – 15:30: Emanuele Rodaro and Pedro Silva, *Never minimal automata and the rainbow bipartite subgraph problem*

15:30 – 16:00: Sabine Broda, António Machiavelo, Nelma Moreira and Rogério Reis, *The average transition complexity of Glushkov and partial derivative automata*

16:00 – 16:30: *Coffee break*

Session Chair: Marie-Pierre Béal

16:30 – 17:00: Namit Chaturvedi, Jörg Olschewski and Wolfgang Thomas, *Languages vs. ω -languages in regular infinite games*

17:00 – 17:30: Andrey Plyushchenko and Arseny Shur, *On Brzozowski's conjecture for the free Burnside semigroup satisfying $x^2 = x^3$*

17:30 – 18:00: Juha Kortelainen and Tuukka Salmi, *There does not exist a minimal full trio with respect to bounded context-free languages*

18:30 – 20:00: **Welcome cocktail**

Wednesday, 20th of July – (Building U6, floor -1, Aula Martini)

Session Chair: Mikhail Volkov

9:00 – 10:00: Arseny Shur (Invited Talk)

Growth properties of power-free languages

Session Chair: Mikhail Volkov

10:00 – 10:30: Peter Černo and František Mráz, *Δ -clearing restarting automata and CFL*

10:30 – 11:00: Norbert Hundeshagen and Friedrich Otto, *Characterizing the regular languages by nonforgetting restarting automata*

11:00 – 11:30: *Coffee break*

Session Chair: Hsu-Chun Yen

11:30 – 12:00: Markus Holzer, Martin Kutrib and Ursula Leiter, *Nodes connected by path languages*

12:00 – 12:30: Giovanni Battaglia, Roberto Grossi and Noemi Scutellà, *Counting the orderings for multisets in consecutive ones property and PQ-trees*

12:30 – 13:00: Zoltán Ésik, *Scattered context-free linear orderings*

13:00 – 14:00: *Lunch*

Session Chair: Stefano Crespi-Reghizzi

14:00 – 14:30: Nuri Taşdemir and Ahmet Celal Cem Say, *Models of pushdown automata with reset*

14:30 – 15:00: Florin Manea, *Deciding networks of evolutionary processors*

15:00 – 15:30: Georg Zetsche, *A sufficient condition for erasing productions to be avoidable*

15:30 – 16:00: Pascal Caron, Yo-Sub Han and Ludovic Mignot, *Generalized one-unambiguity*

16:00 – 16:30: *Coffee break*

Session Chair: Alexander Okhotin

16:30 – 17:00: Victor Selivanov and Anton Konovalov, *Boolean algebras of regular languages*

17:00 – 17:30: Vladimir Gusev and Elena Pribavkina, *On non-complete sets and Restivo's conjecture*

17:30 – 18:00: Markus Holzer and Sebastian Jakobi, *Chop operations and expressions: Descriptive complexity considerations*

Thursday, 21th of July – (Building U6, floor -1, Aula Martini)

Session Chair: Markus Holzer

9:00 – 10:00: Thomas Wilke (Invited Talk)

A functional program for regular expressions matching

Session Chair: Markus Holzer

10:00 – 10:30: Gérard Cécé and Alain Giorgetti, *Simulations over two-dimensional on-line tessellation automata*

10:30 – 11:00: Paola Bonizzoni and Natasha Jonoska, *Regular splicing languages must have a constant*

11:00 – 11:30: *Coffee break*

Session Chair: Natasha Jonoska

11:00 – 11:30: Edita Pelantová and Štěpán Starosta, *Infinite words rich and almost rich in generalized palindromes*

11:30 – 12:00: Volker Diekert and Alexei Myasnikov, *Solving word problems in group extensions over infinite words*

12:00 – 12:30: Gabriele Fici and Zsuzsanna Lipták, *On prefix normal words*

12:30 – 13:30: *Lunch*

13:30 – ??: **Social events: trip to Como lake + social dinner**

Friday, 22th of July – (Building U6, floor -1, Aula Martini)

Session Chair: Zoltán Ésik

9:00 – 10:00: Sheng Yu (Invited Talk)

State complexity research and approximation

Session Chair: Zoltán Ésik

10:00 – 10:30: Janusz Brzozowski and Yuli Ye, *Syntactic complexity of ideal and closed languages*

10:30 – 11:00: Janusz Brzozowski and Hellis Tamm, *Theory of Automata*

11:00 – 11:30: *Coffee break*

Session Chair: Volker Diekert

11:30 – 12:00: Oscar Ibarra and Hsu-Chun Yen, *On two-way transducers*

12:00 – 12:30: Michal Kunc and Alexander Okhotin, *Describing periodicity in deterministic two-way finite automata using transformation semigroups*

12:30 – 13:00: Jeffrey Shallit, *Fife's theorem revisited*

13:00 – 14:00: *Lunch*

Session Chair: Giancarlo Mauri

14:00 – 14:30: Émilie Charlier, Narad Rampersad and Jeffrey Shallit, *Enumeration and decidable properties of automatic sequences*

14:30 – 15:00: Ryo Yoshinaka, *Towards dual approaches for learning context-free grammars based on syntactic concept lattices*

15:00 – 15:30: Benjamin Hellouin De Menibus and Mathieu Sablik, *Self-organization in cellular automata: A particle-based approach*

15:30 – 16:00: Roberto Mantaci and Paolo Massazza, *From linear partitions to parallelogram polyominoes*

16:00 – 16:30: *Coffee break*

16:30 – 17:00: *Closing Session, chaired by Juhani Karhumäki*
