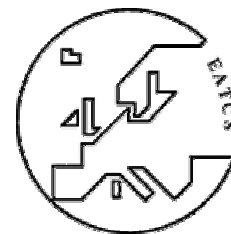




9th International Conference DEVELOPMENTS IN LANGUAGE THEORY



July 4-8, 2005 - Hotel La Torre, Mondello
Palermo, ITALY

Monday, July 4th - Welcome and Registration

17:30 Registration.

19:00 Welcome Cocktail.

Tuesday, July 5th

08:45 Conference Opening.

09:00-10:00 **Invited lecture:**

Central Sturmian Words: Recent Developments.
Arturo Carpi, Aldo de Luca.

10:00-10:30 **Selected Contributions:**

- **Bidimensional Sturmian Sequences and Substitutions.**
Thomas Fernique.

10:30-11:00 Coffee Break.

11:00-12:30 **Selected Contributions:**

- **Sturmian words: dynamical systems and derivated words.**
Isabel M. Araújo and Véronique Bruyère.
- **On Hairpin-Free Words and Languages.**
L. Kari, S. Konstantinidis, P. Sosík, G. Thierrin.
- **On the Frequency of Letters in Pure Binary Morphic Sequences.**
Kalle Saari.

12:30-15:00 Lunch Break.

15:00-16:00 **Invited lecture:**

Codes in Symbolic Systems.
Marie-Pierre Béal, Dominique Perrin.

16:00-16:30 **Selected Contributions:**

- **A Kleene Theorem for Languages of Words Indexed by Linear Orderings.**
Alexis Bès and Olivier Carton.

16:30-17:00 Coffee Break.

17:00-18:30 **Selected Contributions:**

- **Schützenberger and Eilenberg theorems for words on linear orderings.**
Nicolas Bedon and Chloé Rispal.
- **The inclusion problem for unambiguous rational trace languages.**
Paolo Massazza.
- **LR parsing for Boolean grammars.**
Alexander Okhotin.

Wednesday, July 6th

09:00-10:00 **Invited lecture:**

Inexpressibility Results for Regular Languages in Nonregular Settings.
Howard Straubing.

10:00-10:30 **Selected Contributions:**

- **Membership and finiteness problems for recognizable subsets of regular languages.**
Sergey Afonin and Elena Hazova.

10:30-11:00 Coffee Break.

11:00-12:30 **Selected Contributions:**

- **On Language Inequalities $XK \subseteq LX$.**
Michal Kunc.
- **On the Reachability of Invertible Diagonal Matrices.**
Paul Bell and Igor Potapov.
- **Polynomial Generators of Recursively Enumerable Languages.**
Juha Kortelainen.

12:30-15:00 Lunch Break.

15:00-16:00 **Invited lecture:**

Restricted towers of Hanoi and morphisms.
Jean-Paul Allouche and Amir Sapir.

16:00-16:30 **Selected Contributions:**

- **Voronoi cells of beta-integers.**
Avi Elkharrat and Christiane Frougny.

16:30-17:00 Coffee Break.

17:00-18:30 **Selected Contributions:**

- **The Power of Tree Series Transducers of Type I and II.**
Andreas Maletti.
- **Unambiguous Morphic Images of Strings.**
Dominik D. Freydenberger, Daniel Reidenbach, Johannes C. Schneider.
- **A note on a result of Daurat and Nivat.**
Srečko Brlek, Gilbert Labelle, Annie Lacasse.

Thursday, July 7th

09:00-10:00 **Invited lecture:**

Locally Consistent Parsing and Applications to Approximate String Comparisons.
Tuğkan Batu and Cenk Sahinalp.

10:00-10:30 **Selected Contributions:**

- **Languages with mismatches and an application to approximate indexing.**
C. Epifanio, A. Gabriele and F. Mignosi.

10:30-11:00 Coffee Break.

11:00-13:00 **Selected Contributions:**

- **Complementing Two-Way Finite Automata.**
Viliam Geffert, Carlo Mereghetti, Giovanni Pighizzini.

- **Monotone Deterministic RL-Automata Don't Need Auxiliary Symbols.**
T. Jurdzinski, F. Mráz, F. Otto, M. Plátek.
- **Adding Monotonic Counters to Automata and Transition Graphs.**
Wong Karianto.
- **Revolving-Input Finite Automata.**
Henning Bordihn, Markus Holzer, Martin Kutrib.

13:00-15:00 Lunch Break.

15:00-23:00 Social tour and dinner.

Friday, July 8th

09:00-10:00 **Invited lecture:**

Collapsing Words: A Progress Report.
D.S. Ananichev, I.V. Petrov and Michael V. Volkov.

10:00-10:30 **Selected Contributions:**

- **On palindromic factors of billiard words.**
J-P. Borel and C. Reutenauer.

10:30-11:00 Coffee Break.

11:00-12:30 **Selected Contributions:**

- **Palindromes in Sturmian Words.**
Aldo de Luca and Alessandro De Luca.
- **The Mortality Threshold for Partially Monotonic Automata.**
D. S. Ananichev.
- **On Some Properties of the Language of 2-Collapsing Words.**
E. V. Pribavkina.

12:30-15:00 Lunch Break.

15:00-16:00 **Invited lecture:**

Reversible cellular automata.
Jarkko Kari.

16:00-16:30 **Selected Contributions:**

- **Complexity of Quantum Uniform and Nonuniform Automata.**
Farid Ablyayev, Aida Gainutdinova.

16:30-17:00 Coffee Break.

17:00-18:30 **Selected Contributions:**

- **On Timed Automata with Discrete Time--Structural and Language Theoretical Characterization.**
H. Gruber, M. Holzer, A. Kiehn and B. König.
- **Tissue P Systems with Antiport Rules and Small Numbers of Symbols and Cells.**
Artiom Alhazov, Rudolf Freund, Marion Oswald.
- **Semi-Rational Sets of DAGs.**
Lutz Priese.