

Conference Program

(Venue: Prechtlsaal, Hauptgebäude der Technischen Universität Wien, Karlsplatz 13, 1040 Wien)

Sunday, November 21, 2010.

18:00 **Welcome Reception** at Hotel Johann Strauß (Favoritenstraße 12, 1040 Wien).

Monday, November 22, 2010.

09:00 - 09:15 **Opening by Jean-Eric Pin**

Session 1: Finite Automata.

09:15 - 10:15 Thomas A. Henzinger, IST Austria, Klosterneuburg
Weighted Automata over Infinite Words

10:15 - 10:45 Coffee break

10:45 - 11:45 Manfred Droste, Universität Leipzig
Weighted Automata

11:45 - 12:45 Tero Harju, University of Turku
Finite Transducers and Rational Transductions

12:45 - 14:00 Lunch

Session 2a: Trees

14:00 - 15:00 Wolfgang Thomas, RWTH Aachen
Automata on Finite Trees

15:00 - 16:00 Christof Löding, RWTH Aachen
Automata on Infinite Trees

16:00 - 16:30 Coffee break

Session 2b: Special Guest.

16:30 - 17:30 Hermann Maurer, Technische Universität Graz
Long Range Forecasting is Necessary but Impossible

Tuesday, November 23, 2010.

Session 3: Equations.

- 09:00 - 10:00 Zoltán Ésik, University of Szeged
Equational Theories for Automata
- 10:00 - 10:30 Coffee break
- 10:30 - 11:30 Michal Kunc, Masaryk University, Brno
Language Equations
- 11:30 - 12:30 Olivier Serre, LIAFA, CNRS, Paris
Recursions Schemes and their Automata Models
- 12:30 - 14:00 Lunch

Session 4: Automata in Mathematics.

- 14:00 - 15:00 Jeffrey Shallit, University of Waterloo
Enumeration of Languages, Automata, and Regular Expressions
- 15:00 - 15:30 Coffee Break
- 15:30 - 16:30 Pedro Silva, University Porto
Automorphism Problems in the Free Group of Rank 2
- 16:30 - 17:30 Søren Eilers, University of Copenhagen
Classification of Symbolic Dynamical Systems
- 18:00 Buses leave to Dinner at Heurigen

Wednesday, November 24, 2010.

Session 5: Algorithmic Problems on Automata.

- 09:00 - 10:00 Olivier Carton, Liafa - Université Paris Diderot
Minimal Automata
- 10:00 - 10:30 Coffee break
- 10:30 - 11:30 Mikhail Volkov, Ural State University, Ekaterinburg
Cerny's Conjecture and the Road Coloring Problem
- 11:30 - 12:30 Thomas Wilke, Christian-Albrechts-Universität zu Kiel
Functional Programs for Regular Expression Matching
- 12:30 - 14:00 Lunch

Session 6: Applications.

- 14:00 - 15:00 Igor Walukiewicz, LaBRI, CNRS - Université de Bordeaux
The Synthesis Problem
- 15:00 - 15:30 Coffee break
- 15:30 - 16:30 Nicole Schweikardt, Goethe-Universität Frankfurt am Main
Automata in Document Processing
- 16:30 - 17:30 Javier Esparza, Universität Stuttgart
Software Model Checking with Automata

Closing of Conference