Algebraic Theory of Automata and Logic

Satellite Workshop of the Conference: Computer Science Logic 2006

September 30 - October 1, 2006, Szeged, Hungary

Building of the Hungarian Academy of Sciences
Somogyi B. utca 7, Szeged

Programme

Saturday, September 30

8:00 **Registration**

8:55 **Opening**

Session 1

9:00 **The separation conjecture**
Jean-Eric Pin

9:40 **The profinite approach to decidability questions**
Jorge Almeida

10:05 **Break**

Session 2

10:35 **Equational description of pseudovarieties of homomorphisms**
Michal Kunc

11:00 **C-varieties and first-order logic with modular predicates**
Laura Chaubard (joint work with Jean-Eric Pin and Howard Straubing)

11:25 **Trace languages and the variety DA**
Manfred Kufleitner

11:50 **Bimachines: an algebraic approach to Turing machine computation**
Pedro Silva

12:15 **Lunch** (Restaurant Fesztivál, Dóm tér 1-4, Szeged)

Session 3

14:00 **An algebraic approach to regular languages of unranked trees**
Howard Straubing

14:40 **Characterizing Families of Tree Languages by Syntactic Monoids**
Saeed Salehi

15:05 **Tree Algebras and Varieties of Tree Languages**
Magnus Steinby

15:30 **Break**

Session 4

16:00 **Forest algebra**
Mikolaj Bojanczyk

16:25 **Products of tree automata with an application to temporal logic**
Zoltán Ésik

16:50 **Some varieties of finite tree automata related to restricted temporal logics**
Szabolcs Iván

19:00 **Workshop Dinner** (Restaurant Zodiákus, Oskola utca 13, Szeged)

Sunday, October 1

Session 5

9:00 **Product structures and logic: News on the Feferman-Vaught approach**
Wolfgang Thomas

9:40 **Decidability of some classes of rational relations**
Olivier Carton

10:05 **Break**

Session 6

10:35 **Expressive power of pebble automata**
Thomas Schwentick

11:00 **Regular XPath: Algebra, Logic and Automata**
Balder ten Cate

11:25 **Towards Regular Data Languages**
Henrik Bjorklund

11:50 **Myhill-Nerode Theory for Fuzzy Languages and Automata**
Miroslav Ciric

12:15 **Lunch** (Restaurant Fesztivál, Dóm tér 1-4, Szeged)

Session 7

14:00 **Open problems**

15:00 **Break**

Session 8

15:35 **Weighted automata and weighted logics with discounting**
Manfred Droste

16:00 **Weighted traces, their logics, and an extension to weighted MSCs**
Ingmar Meinecke