

15th EACSL Annual Conference on Computer Science Logic

Sept. 25–29, 2006, Szeged, Hungary
Hotel Novotel, Tisza Lajos Hall
Szeged, Maros u. 1.

Programme

Monday, September 25

8:45 **Opening of CSL'06**

Session 1: Decidable Theories of Infinite Structures

Chair: Johann Makowsky

9:00 **Invited Lecture:**

Some Results on a Game-Semantic Approach to Verifying Finitely-Presentable Infinite Structures

C.-H. Luke Ong (Oxford, UK)

10:00 **On Rational Trees**

Arnaud Carayol and Christophe Morvan (Rennes, France)

10:30 **Break**

Session 2: Logic and Computational Complexity I

Chair: Bruno Courcelle

11:00 **Complete Problems for Higher Order Logics**

Lauri Hella (Tampere, Finland) and José María Turull-Torres (Wellington, New Zealand)

11:30 **Collapsibility in Infinite Domain Quantified Constraint Satisfaction**

Manuel Bodirsky (Berlin, Germany) and Hubie Chen (Barcelona, Spain)

12:00 **MSO Queries on Tree Decomposable Structures are Computable with Linear Delay**

Guillaume Bagan (Caen, France)

12:30 **Lunch**

Session 3: Model Checking I

Chair: Mirosław Truszczyński

14:00 **Nash Equilibrium for Upward-Closed Objectives**

Krishnendu Chatterjee (Berkeley, CA, USA)

14:30 **Visibly Pushdown Automata: From Language Equivalence to Simulation and Bisimulation**

Jiří Srba (Aalborg, Denmark)

15:00 **Algorithms for Omega-Regular Games with Imperfect Information**

Krishnendu Chatterjee (Berkeley, CA, USA), Laurent Doyen (Brussels, Belgium), Thomas A. Henzinger (Lausanne, Switzerland) and Jean-François Raskin (Brussels, Belgium)

15:30 **Break**

Session 4: Lambda-Calculus and Combinatory Logic

Chair: C.-H. Luke Ong

16:00 **A Finite Semantics of Simply-Typed Lambda Terms for Infinite Runs of Automata**

Klaus Aehlig (Munich, Germany)

16:30 **The Power of Linear Functions**

Sandra Alves (Porto, Portugal), Maribel Fernández (London, UK), Mário Florido (Porto, Portugal) and Ian Mackie (Paris, France)

17:00 **Break**

Session 5: Verification

Chair: Marius Minea

17:10 **Relating Two Standard Notions of Secrecy**

Véronique Cortier, Michaël Rusinowitch and Eugen Zălinescu (LORIA, Nancy, France)

17:40 **Separation Logic for Higher-Order Store**

Bernhard Reus (Univ. of Sussex, UK) and Jan Schwinghammer (Saarbrücken, Germany)

19:00–22:00 **Welcome Party** (Hotel Novotel, Tisza Garden Brasserie)

Tuesday, September 26

Session 6: Logic and Automata I

Chair: Thomas Schwentick

9:00 **Invited Lecture:**

Automata and Logics for Words and Trees over an Infinite Alphabet

Luc Segoufin (Paris, France)

10:00 **Solving Games without Determinization**

Thomas A. Henzinger and Nir Piterman (Lausanne, Switzerland)

10:30 **Break**

Session 7: Finite Model Theory

Chair: Johann Makowsky

11:00 **First-Order Queries over One Unary Function**

Arnaud Durand (Paris, France) and Frédéric Olive (Univ. of Provence, France)

11:30 **On the Expressive Power of Graph Logic**

Jerzy Marcinkowski (Wrocław, Poland)

12:00 **Universal Structures and the Logic of Forbidden Patterns**

Florent Madelaine (Durham, UK)

12:30 **Lunch**

Session 8: Constructive Mathematics and Type Theory

Chair: Martín Escardó

14:00 **Normalization of IZF with Replacement**

Wojciech Moczydłowski (Cornell Univ, NY, USA)

14:30 **Semi-continuous Sized Types and Termination**

Andreas Abel (Munich, Germany)

15:00 **A Sequent Calculus for Type Theory**

Stéphane Lengrand, Roy Dyckhoff and James McKinna (Univ. of St Andrews, Scotland)

15:30 **Break**

Ackermann Award Ceremony

16:00 **Report of the Ackermann Award Jury**

Johann Makowsky (Jury Chair, Haifa, Israel)

16:15 **Thesis: Model Theory for Extended Modal Languages**

Balder ten Cate (Univ. of Amsterdam, The Netherlands)

16:45 **Thesis: Coalgebras, Monads and Semantics**

Stefan Milius (Braunschweig, Germany)

Wednesday, September 27

Session 9: Logic and Algebra

Chair: R. Ramanujam

9:00 **Invited Lecture:**

Nonmonotonic Logics and Their Algebraic Foundations

Mirosław Truszczyński (Lexington, KY, USA)

10:00 **Break**

Session 10: Logic and Computational Complexity II

Chair: Damian Niwiński

10:30 **An Algebraic Point of View on the Crane Beach Property**

Clemens Lautemann, Pascal Tesson (Laval Univ, Canada) and Denis Thérien (McGill Univ, Canada)

11:00 **Space-Efficient Computation by Interaction – A Type System for Logarithmic Space**

Ulrich Schöpp (Munich, Germany)

11:30 **Towards an Implicit Characterization of NC^k**

Guillaume Bonfante (LORIA, Nancy, France), Reinhard Kahle (Coimbra, Portugal), Jean-Yves Marion (LORIA, Nancy, France) and Isabel Oitavem (Lisbon, Portugal)

12:00 **Lunch**

14:00–16:00 **Sightseeing in Szeged** (Starting from Hotel Novotel)

16:00–16:30 **Organ Concert in the Dom**

18:00–19:30 **EACSL Assembly** (Hotel Novotel)

Thursday, September 28

Session 11: Categories and Linear Logic

Chair: Damian Niwiński

9:00 **Invited Lecture:**

Functorial Boxes in String Diagrams

Paul-André Mellies (Paris, France)

10:00 **A Jump from Parallel to Sequential Proofs: Multiplicatives**

Paolo Di Giamberardino (Rome, Italy) and Claudia Faggian (Padua, Italy)

10:30 **Break**

Session 12: Model Checking II

Chair: Thomas Schwentick

11:00 **Concurrent Games with Tail Objectives**

Krishnendu Chatterjee (Berkeley, CA, USA)

11:30 **Infinite State Model-Checking of Propositional Dynamic Logics**

Stefan Göller and Markus Lohrey (Stuttgart, Germany)

12:00 **Decidable Theories of the Ordering of Natural Numbers with Unary Predicates**

Alexander Rabinovich (Tel Aviv, Israel) and Wolfgang Thomas (Aachen, Germany)

12:30 **Lunch**

Session 13: Logical Foundations of Programming Paradigms

Chair: Bruno Courcelle

14:00 **Universality Results for Models in Locally Boolean Domains**

Tobias Löw and Thomas Streicher (Darmstadt, Germany)

14:30 **Reasoning about States of Probabilistic Sequential Programs**

Rohit Chadha, Paulo Mateus and Amílcar Sernadas (Lisbon, Portugal)

15:00 **Abstracting Allocation: The New New Thing**

Nick Benton (Microsoft Research, Cambridge, UK)

15:30 **Break**

Session 14: Linear Logic

Chair: Paul-André Mellies

16:00 **Acyclicity and Coherence in Multiplicative Exponential Linear Logic**

Michele Pagani (Rome, Italy)

16:30 **Verification of Ptime Reducibility for System F Terms via Dual Light Affine Logic**

Vincent Atassi, Patrick Baillot (Paris, France) and Kazushige Terui (National Ins. of Inf, Japan)

17:00 **Break**

Session 15: Processes and Modal Logic

Chair: R. Ramanujam

17:10 **Weak Bisimulation Approximants**

Will Harwood, Faron Moller and Anton Setzer (Swansea, UK)

17:40 **Logical Omniscience via Proof Complexity**

Sergei Artemov and Roman Kuznets (City Univ. of New York, USA)

19:30 **Conference Dinner** (Restaurant Szeged, Széchenyi square 9.)

Friday, September 29

Session 16: Logic and Computation

Chair: Zoltán Ésik

9:00 **Invited Lecture:**

Topology, Logic and Computation

Martín Escardó (Birmingham, UK)

10:00 **Hoare Logic in the Abstract**

Ursula Martin, Erik A. Mathiesen and Paulo Oliva (London, UK)

10:30 **Break**

Session 17: Logic and Automata II

Chair: Luc Segoufin

11:00 **Satisfiability and Finite Model Property for the Alternating-Time μ -Calculus**

Sven Schewe and Bernd Finkbeiner (Saarbrücken, Germany)

11:30 **Game Quantification on Automatic Structures and Hierarchical Model Checking Games**

Lukasz Kaiser (Aachen, Germany)

12:00 **Church Synthesis Problem with Parameters**

Alexander Rabinovich (Tel Aviv, Israel)

12:30 **Closing of CSL'06**

12:40 **Lunch**

Registration at Hotel Novotel, Szeged, Maros u. 1.

Monday 8:00 – 12:00

Tuesday 8:30 – 12:00

Wednesday 8:30 – 12:00

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