

LICS 2008

Preliminary Program

Tue Jun 24, AM
University Center, McConomy Auditorium

Session 1 (Joint CSF/LICS)

8:30 – 9:30

David Basin (Invited Talk, CSF/LICS)

Cryptographically Sound Protocol-Model Abstractions

9:30 – 10:00

Rohit Chadha, A. Prasad Sistla and Mahesh Viswanathan (LICS)

On the Expressivity and Complexity of Randomization in Finite State Monitors

10:00 – 10:30

Henry DeYoung, Deepak Garg and Frank Pfenning (CSF)

An Authorization Logic with Explicit Time

10:30 – 11:00 Coffee Break

Session 2 (Joint CSF/LICS)

11:00 – 11:30

Yuri Gurevich and Itay Neeman (CSF)

DKAL: Distributed-Knowledge Authorization Language

11:30 – 12:00

Glenn Bruns and Michael Huth (CSF)

Access-Control Policies via Belnap Logic: Effective and Efficient Composition and Analysis

12:00 – 12:30

Jeffrey Vaughan, Limin Jia, Karl Masurak and Steve Zdancewic (CSF)

Evidence-Based Audit

12:30 – 2:00 Lunch (Rangos Hall 2, 3)

Tues Jun 24, PM
Giant Eagle Auditorium, Baker Hall A51

Session 3 (LICS, Logical Frameworks)

2:00 – 2:30

Andrew Gacek, Dale Miler and Gopalan Nadathur
Combining Generic Judgments with Recursive Definitions

2:30 – 3:00

Christian Urban, James Cheney and Stefan Berghofer
Mechanizing the Theory of LF

3:00 – 3:30

Marcelo Fiore
Second-Order and Dependently-Sorted Abstract Syntax

3:30 – 4:00

Carsten Schürmann and Jeffrey Sarnat
Structural Logical Relations

4:00 – 4:30 Coffee Break

Session 4 (LICS, Lambda Calculus)

4:30 – 5:00

Makoto Tatsuta
Types for Hereditary Permutators

5:00 – 5:30

Adria Gascón, Guillem Godoy and Manfred Schmidt-Schauss
Context Matching for Compressed Terms

Session 5 (Joint LICS/CSF)

5:30 – 6:30 Short Talks

Evening Event (Joint CSF/LICS)

7:00 – 9:00 Reception, Phipps Conservatory

Wed Jun 25, AM
Giant Eagle Auditorium, Baker Hall A51

Session 6 (LICS)

8:30 – 9:30

Dexter Kozen (Invited Talk)

Nonlocal Flow of Control and Kleene Algebra with Tests

9:30 – 10:00

Gordon Plotkin and Matija Pretnar

A Logic for Algebraic Effects

10:00 – 10:30

Emmanuel Beffara

An Algebraic Process Calculus

10:30 – 11:00 Coffee Break

Session 7 (LICS, Process Calculi)

11:00 – 11:30

Ivan Lanese, Jorge A. Perez, Davide Sangiorgi and Alan Schmitt

On the Expressiveness and Decidability of Higher-Order Process Calculus

11:30 – 12:00

Taolue Chen and Wan Fokkink

On the Axiomatizability of Impossible Futures: Preorder versus Equivalence

12:00 – 12:30

Sam Staton

General Structural Operational Semantics through Categorical Logic

12:30 – 2:00 Lunch (Rangos Hall, University Center)

Wed Jun 25, PM
Giant Eagle Auditorium, Baker Hall A51

Session 8 (LICS, Model Checking)

2:00 – 2:30

Vineet Kahlon

Parameterization as Abstraction: A Tractable Approach to the Dataflow

Analysis of Concurrent Programs

2:30 – 3:00

Arnaud Carayol, Matthew Hague, Antoine Meyer, Luke Ong and Olivier Serre

Winning Regions of Higher-Order Pushdown Games

3:00 – 3:30

Pierre Chambart and Philippe Schnoebelen

The Ordinal Recursive Complexity of Lossy Channel Systems

3:30 – 4:00

Christel Baier, Nathalie Bertrand, Patricia Bouyer, Thomas Brihaye
and Marcus Groesser

Almost-Sure Model Checking of Infinite Paths in One-Clock Timed Automata

4:00 – 4:30 Coffee Break

Session 9 (LICS, Proof Theory)

4:30 – 5:00

Agata Ciabattoni, Nikolaos Galatos and Kazushige Terui

From Axioms to Analytic Rules in Nonclassical Logics

5:00 – 5:30

Daniel Licata, Noam Zeilberger and Robert Harper

Focusing on Binding and Computation

5:30 – 6:00

Guillaume Burel

A First-Order Representation of Pure Type Systems using Superdeduction

Evening Events

6:00 – 6:30 Award Presentations

6:30 – 7:30 LICS Business Meeting

Thur Jun 26, AM
Giant Eagle Auditorium, Baker Hall A51

Session 10 (LICS, Computational Complexity)

8:30 – 9:30

Martin Grohe (Invited Talk)

The Quest for a Logic Capturing PTIME

9:30 – 10:00

Soren Riis

On the Asymptotic Nullstellensatz and Polynomial Calculus Proof Complexity

10:00 – 10:30

Klaus Aehlig and Arnold Beckmann

On the Computational Complexity of Cut-Reduction

10:30 – 11:00 Coffee Break

Session 11 (LICS, Constraints)

11:00 – 11:30

Victor Dalmau and Benoit Larose

Maltsev + Datalog \rightarrow Symmetric Datalog

11:30 – 12:00

Catarina Carvalho, Victor Dalmau and Andrei Krokhin

Caterpillar Duality for Constraint Satisfaction Problems

12:00 – 12:30

Barnaby Martin, Florent Madelaine and Hubie Chen

Quantified Constraints and Containment Problems

12:30 – 2:00 Lunch (Rangos Hall, University Center)

Thur Jun 26, PM
Giant Eagle Auditorium, Baker Hall A51

Session 12 (LICS, Reasoning about Programs)

2:00 – 2:30

Francois Pottier

Hiding Local State in Direct Style: A Higher-Order Anti-Frame Rule

2:30 – 3:00

Soren Lassen and Paul Blain Levy

Typed Normal Form Bisimulation for Parametric Polymorphism

3:00 – 3:30

Andrzej Murawski

Reachability Games and Game Semantics: On Comparing Nondeterministic Programs

3:30 – 4:00

Abbas Edalat

Weak Topology and Differentiable Operator for Lipschitz Maps

4:00 – 4:30 Coffee Break

Session 13 (LICS, Probabilistic Systems)

4:30 – 5:00

James F. Lynch

A Logical Characterization of Individual-Based Models

5:00 – 5:30

Tomas Brazdil, Jan Kretinsky, Antonin Kucera and Vojtech Forejt

The Satisfiability Problem for Probabilistic CTL

Evening Event

8:00 – 10:00 LICS Banquet (Heinz History Center)

Fri Jun 27, AM
Giant Eagle Auditorium, Baker Hall A51

Session 14 (LICS, Finite Model Theory)

8:30 – 9:30

Yiannis Moschovakis (Invited Talk)

The Axiomatic Derivation of Absolute Lower Bounds

9:30 – 10:00

Martin Grohe

Definable Tree Decompositions

10:00 – 10:30

David Duris

Hypergraph Acyclicity and Extension Preservation Theorems

10:30 – 11:00 Coffee Break

Session 15 (LICS, Automata Theory)

11:00 – 11:30

Greg Hjorth, Bakhadyr Khoushainov, Antonio Montalbán and Andre Nies

From Automatic Structures to Borel Structures

11:30 – 12:00

Mikolaj Bojanczyk, Luc Segoufin and Howard Straubing

Piecewise Testable Tree Languages

12:00 – 12:30

Matthew Hague, Andrzej Murawski, Luke Ong and Olivier Serre

Collapsible Pushdown Automata and Recursion Schemes

12:30 – 1:00 Box Lunch (Rangos Hall, University Center)

Fri Jun 27, PM
Giant Eagle Auditorium, Baker Hall A51

Session 16 (LICS, Linear Logic)

1:00 – 1:30

Marc de Falco

The Geometry of Interaction of Differential Interaction Nets

1:30 – 2:00

Virgile Mogbil and Paulin Jacobé de Naurois

Correctness of Multiplicative Additive Proof Structures is NL-Complete

2:00 – 2:30

Roberto Maieli and Olivier Laurent

Cut Elimination for Monomial MALL Proof Nets

2:30 – 3:00

Olivier Delandé and Dale Miller

A Neutral Approach to Proof and Refutation in MALL

3:00 End of Conference