

WoLLIC2007

Conference Program

- \* Coffee breaks: 10am - 10:15am, 3:30pm - 3:45pm.
- \*\* BCSC Opening cocktail: Tuesday, July 4 - 7pm
- BCSC Conference dinner: Wednesday, July 5 - 8pm

Monday, July 2

Session 1. Chair: Ruy de Queiroz

8am - 9am

Achim Jung (Tutorial).  
Stone duality

9am - 10am

Philippa Gardner (Invited talk).  
Context logic and tree update

Session 2. Chair: Yde Venema

10:15am - 11:15am

Martin Escardo (Invited talk).  
Algorithmic topology of program types

11:15am - 12:15am

Achim Jung (Invited talk).  
On the interplay of logic and information: a topological analysis

Session 3. Chair: Philippa Gardner

1:30pm - 2pm

Sabine Broda and Luis Damas.  
On principal types of BCK-lambda-terms

2pm - 2:30pm

Murdoch Gabbay and Aad Mathijssen.  
A formal calculus for informal equality with binding

2:30pm - 3:30pm

Alexandra Silva and Jan Rutten.  
Behavioral differential equations and coinduction for binary trees

Session 4. Chair: Petrucio Viana

3:45pm - 4:15pm

Andre Hirschowitz and Marco Maggesi.  
Modules over monads and linearity

4:15pm - 4:45pm

Thomas Bolander and Rene Rydhof Hansen.  
Hybrid logical analyses of the ambient calculus

Tuesday, July 3

Session 5. Chair: Marcelo Correa

8am -9am

Michael Moortgat (Invited talk).  
Symmetries in natural language syntax and semantics:  
the Lambek-Grishin calculus

9am - 9:30am

Denis Bechet and Annie Foret.  
Fully lexicalized pregroup grammars

9:30am - 10am

Alexander Dikovsky.  
A finite-state functional grammar architecture

Session 6. Chair: Mario Benevides

10:15am - 10:45am

Kim Solin.  
A sketch of a dynamic epistemic semiring

10:45am - 11:15am

Annie Foret.  
Pregroup calculus as a logic functor

11:15am - 11:45am

Raffaella Bernardi and Michael Moortgat.  
Continuation semantics for symmetric categorial grammar

Session 7. Chair: Hermann Haeusler

1:30pm - 2:30pm

Alex Borgida (Invited talk).  
Description Logics: formal foundations and applications

2:30pm - 3pm

Sven Hartmann and Sebastian Link.  
Numerical constraints for XML

3pm - 3:30pm

Renata Reiser, Gracaliz Dimuro, Benjamin Bedregal and Regivan Santiago.  
Interval valued QL-implications

Session 8. Chair: Alex Borgida

3:45pm - 4:15pm

Benjamin Bedregal, Roberto Callejas-Bedregal and Helida Santos.  
Bounded lattice t-norms as an interval category

4:15pm - 4:45pm

Ryan Bissell-Siders.  
Ehrenfeucht-Fraisse games on linear orders

Wednesday, July 4

Session 9. Chair: Renata de Freitas

8am - 8:30am

Marcos Villagra and Benjamin Baran.  
Ant colony optimization With adaptive fitness function  
for satisfiability testing

8:30am - 9am

Ariya Isihara.  
Hydra games and tree ordinals

9am - 10am

Louis Kaufmann (Tutorial).  
Quantum topology and quantum computation

Session 10. Chair: Paulo Oliva

10:15am - 11:15am

Louis Kaufmann (Invited talk).  
Spin networks in quantum computation

11:15am - 12:15pm

Yde Venema (Invited talk).  
A modal distributive law

Session 11. Chair: Martin Escardo

1:30pm - 2:30pm

Alessandra Carbone (Invited talk).  
Group Theory and Classical Proofs

2:30pm - 3:30pm

Paulo Oliva (Invited talk).  
Computational interpretations of classical linear logic

Session 12. Chair: Luiz Carlos Pereira

3:45pm - 4:15pm

Andre Luiz Galdino, Cesar Munoz and Mauricio Ayala-Rincon.  
Formal verification of an optimal air traffic conflict resolution  
and recovery algorithm

4:15pm - 4:45pm

Hicham Bensaïd, Ricardo Caferra and Nicolas Peltier.  
Towards a systematic analysis of theorem provers search spaces

4:45pm - 5:15pm

Joachim Baran and Howard Barringer.  
A grammatical representation of visibly pushdown languages

Thursday, July 5

Session 13. Chair: Marcelo Finger

8am - 9am

John Reif (Tutorial)  
Biological computing

9am - 10am

Alessandra Carbone (Invited talk).  
Genome synthesis and genomic functional cores

Session 14. Chair: Daniel Leivant

10:15am - 11:15am

Louis Kauffman (Invited talk).  
Biologic

11:15am - 12:15pm

John Reif (Invited talk).  
Autonomous programmable biomolecular devices using self-assembled  
DNA nanostructures Specifying properties of data