

---

Annual Conference of the European Association for Computer Science Logic

# CSL 2011

September (11)12–15, 2011, Bergen, Norway

## PROGRAM

---

### Sunday 11 September, pre-conference workshop: Epsilon Calculus and Constructivity

11:00	Workshop opening by Georg Moser
11:05	Matthias Baaz: <i>The Potential of the Epsilon Calculus</i>
11:30	<b>Invited Lecture</b> by Richard Zach: <i>Epsilon Calculus in Non-classical Logics</i>
12:15	Lunch
14:00	<b>Invited Lecture</b> by Daniel Weller: <i>Skolemization, Cut-free Proofs and Complexity</i>
14:45	<b>Invited Lecture</b> by Daniel Bruns: <i>Semantics of Model Fields in Program Specification Inspired by Epsilon Terms</i>
15:10	<b>Invited Lecture</b> by Rosalie Iemhoff: <i>Skolemization in Intuitionistic Logic</i>
15:55	Coffee break
16:30	Excursion (hike with meal on Ulriken)

### Monday 12 September

09:00	Registration and coffee
09:55	Conference opening by Marc Bezem
10:00	<b>Invited Lecture</b> by Moshe Vardi: <i>Branching vs. Linear Time: Semantical Perspective</i>
11:00	Coffee break
	<b>Session:</b> Finite Model Theory
11:25	Kord Eickmeyer: <i>Non-Definability Results for Randomised First-Order Logic</i>
11:50	Howard Straubing: <i>Algebraic Characterization of the Alternation Hierarchy in <math>FO^2[&lt;]</math> on Finite Words</i>
12:15	Lunch
	<b>Session:</b> Lambda Calculus and Combinators
14:00	Martin Escardo, Paulo Oliva and Thomas Powell: <i>System T and the Product of Selection Functions</i>
14:25	Lukasz Czajka: <i>A model-theoretic approach to illative combinatory logic</i>
14:50	Andrew Polonsky: <i>Axiomatizing the Quote</i>
15:15	Antonio Bucciarelli, Alberto Carraro, Thomas Ehrhard and Giulio Manzonetto: <i>Full Abstraction for Resource Calculus with Tests</i>
15:40	Coffee break
	<b>Session:</b> Semantics 1
16:00	Andrew Pitts and Steffen Lösch: <i>Relating Two Semantics of Locally Scoped Names</i>
16:25	Alexis Bernadet and Stephane Lengrand: <i>Filter models: non-idempotent intersection types, orthogonality and polymorphism</i>
16:50	Bernhard Reus and Thomas Streicher: <i>Relative Completeness for Logics of Functional Programs</i>
17:15	Alan Jeffrey and Julian Rathke: <i>The Lax Braided Structure of Streaming I/O</i>

### Tuesday 13 September

09:00	<b>Invited Lecture</b> by Thomas Ehrhard: <i>Resource lambda-calculus: the differential viewpoint</i>
10:00	Wladimir Fridman, Christof Löding and Martin Zimmermann: <i>Degrees of Lookahead in Context-free Infinite Games</i>
10:25	Coffee break
	<b>Session:</b> Synthesis
11:00	Sumit Nain, Moshe Vardi and Yoad Lustig: <i>Synthesis from Probabilistic Components</i>
11:25	Mark Jenkins, Alexander Rabinovich, Joel Ouaknine and James Worrell: <i>The Church Synthesis Problem with Metric</i>
11:50	P. Madhusudan: <i>Synthesizing Reactive Programs</i>
12:15	Lunch
	<b>Session:</b> Logic and Complexity
14:00	Martin Grohe, Berit Grussien, André Hermich and Bastian Laubner: <i>L-Recursion and a new Logic for Logarithmic Space</i>
14:25	Laszlo Egri: <i>On Constraint Satisfaction Problems below P</i>
14:50	Dai Tri Man Le, Stephen A. Cook and Yuli Ye: <i>A Formal Theory for the Complexity Class Associated with Stable Marriage Problem</i>
15:15	Yann Strozecki and Arnaud Durand: <i>Enumeration Complexity of logical query problems with second order variables</i>
15:40	Coffee break
	<b>Session:</b> Semantics 2
16:00	Sara Miner More, Pavel Naumov and Benjamin Sapp: <i>Concurrency Semantics for the Geiger-Paz-Pearl Axioms of Independence</i>
16:25	Romain Beauxis and Samuel Mimram: <i>A Non-Standard Semantics for Kahn Networks in Continuous Time</i>
16:50	Daniel Schwencke: <i>A Category Theoretic View of Nondeterministic Recursive Program Schemes</i>
17:15	Ekaterina Komendantskaya and John Power: <i>Coalgebraic Derivations in Logic Programming</i>
17:45	EACSL Business Meeting

## Wednesday 14 September

09:00	<b>Invited Lecture</b> by Frank Wolter: <i>Ontology-Based Data Access and Constraint Satisfaction</i>
10:00	Jan Schwinghammer and Lars Birkedal: <i>Step-indexed Relational Reasoning for Countable Nondeterminism</i>
10:25	Coffee break
	<b>Session:</b> Decidability
11:00	Emanuel Kieronski: <i>Decidability Issues for Two-Variable Logics with Several Linear Orders</i>
11:25	Andreas Schnabl and Jakob Grue Simonsen: <i>The Exact Hardness of Deciding Derivational and Runtime Complexity</i>
11:50	Cristiano Longo, Domenico Cantone and Marianna Nicolosi Asmundo: <i>A Decidable Quantified Fragment of Set Theory Involving Ordered Pairs with Applications to Description Logics</i>
12:15	Lunch
	<b>Session:</b> Computer Science Logic
14:00	Radu Mardare, Luca Cardelli and Kim G. Larsen: <i>Continuous Markovian Logic - From Complete Axiomatization to the Metric Space of Formulas</i>
14:25	Jiri Adamek, Stefan Milius, Lawrence Moss and Lurdes Sousa: <i>Power-Set Functors and Saturated Trees</i>
14:50	Alexis Bes and Olivier Carton: <i>Algebraic characterization of FO for scattered linear orderings</i>
15:15	Coffee break
	<b>Session:</b> Ackermann Award
15:45	Laudatio
16:00	Ackermann Lecture
17:00	Retiring President's Address
19:00	Conference Dinner

## Thursday 15 September

09:00	<b>Invited Lecture</b> by Martin Otto: <i>The Freedoms of Guarded Bisimulation</i>
10:00	Alexander Kartzow: <i>A Pumping Lemma for Collapsible Pushdown Graphs of Level 2</i>
10:25	Coffee break
	<b>Session:</b> Computational Proof Theory
11:00	Federico Aschieri: <i>Transfinite Update Procedures for Predicative Systems of Analysis</i>
11:25	Makoto Tatsuta and Stefano Berardi: <i>Non-Commutative Infinitary Peano Arithmetic</i>
11:50	Kaustuv Chaudhuri, Nicolas Guenot and Lutz Strassburger: <i>The Focused Calculus of Structures</i>
12:15	Lunch
	<b>Session:</b> Automata and Verification
14:00	Seth Fogarty, Moshe Vardi, Orna Kupferman and Thomas Wilke: <i>Unifying Buechi Complementation Constructions</i>
14:25	Udi Boker and Thomas Henzinger: <i>Determinizing Discounted-Sum Automata</i>
14:50	Eryk Kopczynski: <i>Trees in trees: is the incomplete information about a tree consistent?</i>
15:15	Yang Cai and Ting Zhang: <i>Tight Upper Bounds for Streett and Parity Complementation</i>
15:40	Conference closing, coffee