Types for Proofs and Programs
Third Annual Meeting

June 12th - 16th
Lökeberg, Sweden

Programme

Saturday 12

13.30		Bus from the airport to Lökeberg Bus from Göteborg to Lökeberg
14.15 - 15.05		**Registration and Coffee**
15.05 - 15.15	Jan Smith	Welcome
		Session 1
15.15 - 15.45	Thierry Coquand	Meta-variables
15.45 - 16.15	Pietro Di Gianantonio	An Approach to Real Numbers in Coq
16.15 - 16.45	Micaela Mayero	The Three Gap Theorem: Specification and Proof in Coq
16.45 - 17.00		**Break**
		Session 2
17.00 - 17.30	Furio Honsell	Using Functor Categories to Explain and Justify Axiomatizations of Variables and Schemata in HOAS
17.30 - 18.00	Guillaume Gillard	Formalization of a Concurrent Object Calculus up to Alpha-conversion
18.00 - 18.30	Samin Ishtiaq	Some Logics for :=
19.30		**Dinner**
21.00		**Wine and Cheese**

Sunday 13

		Session 3 - Invited Speaker
9.00 - 10.00	Gerard Berry	Electricity, Constructive Logic and 2-adic Numbers
10.00 - 10.30		**Coffee Break**
		Session 4
10.30 - 11.00	Zhaohui Luo	Functional Programming with Dependent Types
11.00 - 11.30	Ferruccio Damiani	Useless-code Detection and Elimination for Typed Functional Programs
11.30 - 12.00	Jean Duprat	Proof of Correctness of a Distributed Reference Counting Algorithm
12.00 - 13.30		**Lunch**
		Session 5
13.30 - 14.00	Benjamin Werner	Efficient Reflexion
14.00 - 14.30	Markus Wenzel	Isar - a Generic Interpretative Approach to Readable Formal Proof Documents
14.30 - 15.00		**Coffee Break**
		Session 6
15.00 - 15.30	Qiao Haiyan	Implementing Formulas-as-Types-as-Objects
15.30 - 16.00	Sylvain Baro	A Logical Framework for mini-ML Programs Proofs and Specifications
16.00 - 16.15		**Break**
		Session 7 - Demo Session
16.15 - 16.35	Gerard Berry	The Jazz Language
16.35 - 16.55	Thomas Hallgren	The Proof Assistant Alfa
16.55 - 17.15	Jean-Christophe Filliâtre	Proof of Imperative Programs in the System Coq
17.15 - 17.35	Markus Wenzel	Isabelle/Isar – Demonstrated together with ProofGeneral/isar
18.00 - 19.15		**Dinner**
19.30	Bus to Marstrand	
22.30	Bus to Lökeberg	

Monday 14

		Session 8
9.00 - 10.00	Per Martin-Lf	Nonstandard Type Theory
10.00 - 10.30		**Coffee Break**
		Session 9
10.30 - 11.00	Erik Palmgren	Predicative Toposes
11.00 - 11.30	Anton Setzer	Why Meaning Explanations Do not Justify U:U
11.30 - 12.00	Maria Emilia Maietti	About the Arithmetic Universe via Type Theory
12.00 - 13.30		**Lunch**
		Session 10
13.30 - 14.00	Frederic Prost	Pure Type Systems and Static Analyses
14.00 - 14.30	Alexandre Miquel	IPTS: A formalism Extending PTS with Implicit Arguments
14.30 - 15.00	Jan von Plato	An Application of Cut Elimination to a System with Dependent Types
15.15		**Excursion**
15.30 - 19.30	Boat Trip	
20.00		**Dinner**

Tuesday 15

		Session 11
9.00 - 10.00	Peter Aczel	Logic in Dependent Type Theories
10.00 - 10.30		**Coffee Break**
		Session 12
10.30 - 11.00	Monika Seisenberger	Kruskal's Tree Theorem in a Constructive Theory of Inductive Definitions
11.00 - 11.30	Andreas Abel	A Predicative Analysis of Structural Recursion
11.30 - 12.00	Ana Bove	Programming in MLTT: Unification - A non-trivial Example
12.00 - 14.00		**Lunch**
		Session 13
14.00 - 14.30	Herman Geuvers	Formalizing the Fundamental Theorem of Algebra
14.30 - 15.00	Loic Pottier	Algebra with Coq
15.00 - 15.30	Henrik Persson	Abstractions in Type Theory
15.30 - 16.00		**Coffee Break**
		Session 14
16.00 - 16.30	Marc Bezem	Extensionality of Simply Typed Logic Programs
16.30 - 17.00	Carsten Schürmann	A Meta-Logical Framework for LF
17.00 - 17.15		**Break**
		Session 15 - Demo Session
17.15 - 17.35	Carsten Schürmann	Twelf – a Meta Logical Framework for Deductive Systems
17.35 - 17.55	Aarne Ranta	Demonstration of GF (Grammatical Framework)
17.55 - 18.15	Paul Callaghan	Plastic: An Implementation of Typed LF with Coercions
19.00		**Banquet**

Wednesday 16

		Session 16
9.00 - 9.30	Thorsten Altenkirch	Reduction-free Normalisation for a λ-calculus with Coproducts
9.30 - 10.00	Peter Dybjer	Ordinals as Universes
10.00 - 10.30	Judicael Courant	Church-Rosser and Strong Normalization of the Module Calculus MC
10.30 - 11.00		**Coffee Break**
		Session 17
11.00 - 11.30	Petri Mäenpää	Prototypes with Dependent Types
11.30 - 12.00	Conor McBride	OLEG, a Type Theory with Holes, Lets and Guesses
12.00 - 12.30	Gilles Dowek	HOL-lambda-sigma: An Intentional First-order Expression of Higher-order Logic
12.30 - 14.00		**Lunch**

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