Foundational Methods in Computer Science 2012

Dalhousie University, Halifax, Canada
June 14–17, 2012

Program

Wednesday, June 13

5:30 – 8:00:	Welcome reception, 319 Chase Building

Thursday, June 14

8:30 – 9:00:	Coffee and Breakfast
9:00 – 9:45:	Ernie Manes (Massachusetts): *More work for Robin: Universal algebra in everyday programming logic, and concomitant challenges for restriction categories (part 1)*
9:45 – 10:30:	Takeo Uramoto (Kyoto): *On Tannaka dualities*
10:30 – 10:55:	Break
10:55 – 11:40:	Willem Heijltjes (LIX): *Proof nets and semi-star-autonomous categories*
11:40 – 12:25:	Keith O'Neill (Ottawa): *Differential Forms for T-Algebras in a Kahler Category*
12:25 – 2:00:	Lunch
2:00 – 2:45:	Ernie Manes (Massachusetts): *More work for Robin: Universal algebra in everyday programming logic, and concomitant challenges for restriction categories (part 2)*
2:45 – 3:30:	Subashis Chakraborty (Calgary): *The proof theory of message passing with protocols*
3:30 – 3:55:	Break
3:55 – 4:40:	Masuka Yeasin (Calgary): *Linear functors and their fixed points*
4:40 – 5:25:	Bob Paré (Dalhousie): *Colimits and Profunctors*

Friday, June 15

8:30 – 9:00:	Coffee and Breakfast
9:00 – 9:45:	Robin Cockett (Calgary): *Can you differentiate a polynomial? (part 1)*
9:45 – 10:30:	Robert Seely (McGill): *Towards a notion of Cartesian differential storage category*
10:30 – 10:55:	Break
10:55 – 11:40:	Brett Giles (Calgary): *Linear Quantum Programming Language (LPQL) and implementing a Quantum Stack*
11:40 – 12:25:	Susan Niefield (Union): *A double approach to variation for bicategories*
12:25 – 2:00:	Lunch

2:00 – 2:45:	Geoff Cruttwell (Ottawa):
	Differential structure, tangent structure, and SDG
2:45 – 3:30:	Jonathan Gallagher (Calgary):
	Differential combinatory algebras
3:30 – 3:55:	Break
3:55 – 4:40:	Philip Mulry (Colgate):
	An Overview of Some Categorical Approaches to Computation
4:40 – 5:25:	Pieter Hofstra (Ottawa):
	Isotropy and Crossed Toposes
5:25 – 5:40:	Ernie Manes (Massachusetts):
7:00 – :	Dinner

Saturday, June 16

8:30 – 9:00:	Coffee and Breakfast
9:00 – 9:45:	Simona Paoli (Leicester):
	Categorical models of homotopy types (part 1)
9:45 – 10:30:	Laura Scull (Fort Lewis):
	Equivariant homotopy and diagram categories
10:30 – 10:55:	Break
10:55 – 11:40:	Jeff Egger (Dalhousie):
	A categorical look at Fourier transforms
11:40 – 12:25:	Peter LeFanu Lumsdaine (Dalhousie):
	Fibrations as Types — a categorical road to intensional type theory (part 1)
12:25 – 2:00:	Lunch
2:00 – 2:45:	Simona Paoli (Leicester):
	Categorical models of homotopy types (part 2)
3:00 – :	Excursion/Hike/free afternoon

Sunday, June 17

8:30 – 9:00:	Coffee and Breakfast
9:00 – 9:45:	Peter LeFanu Lumsdaine (Dalhousie):
	Fibrations as Types — a categorical road to intensional type theory (part 2)
9:45 – 10:30:	Micah McCurdy (Dalhousie):
	Introduction to Adiabatic Quantum Computing
10:30 – 10:55:	Break
10:55 – 11:40:	Francisco Marmolejo (UNAM):
	No-iteration pseudomonads
11:40 – 12:25:	Robin Cockett (Calgary):
	Can you differentiate a polynomial? (part 2)
12:25 – 2:00:	Lunch