

MFPS XXX Program

All talks will be held in the Gates Hall auditorium (G01).

Thursday June 12	
8:30-9:30	Tutorial: Prakash Panangaden Labelled Markov Processes
9:30-10:10	Radu Mardare, Bingtian Xue, Kim Guldstrand Larsen and Samy Jaziri Adequacy and Complete Axiomatization for Timed Modal Logic
Break	
10:40-11:40	Plenary: Dexter Kozen
11:40-12:20	Jiri Adámek, Stefan Milius, Robert Myers and Henning Urbat On Continuous Nondeterminism and State Minimality
12:20-13:00	Liang-Ting Chen and Achim Jung On a Categorical Framework for Coalgebraic Modal Logic
Lunch	
14:30-15:30	Tutorial: Josée Desharnais Logical Characterization of Bisimulation for Labelled Markov Processes
15:30-16:10	Tetsuya Sato Identifying All Preorders on the Subdistribution Monad
Break	
16:40-17:20	Maciej Piróg and Jeremy Gibbons The Coinductive Resumption Monad
17:20-18:00	Danel Ahman and Tarmo Uustalu Coalgebraic Update Lenses
18:00-19:30	Reception - Gates Hall Atrium

Friday June 13	
	Special Session on Quantum Computing
8:30-9:30	Plenary: Elham Kashefi
9:30-10:10	Bart Jacobs Quantum Predicates and Instruments
Break	
10:40-11:20	Mark Hillery Quantum Property Testing of Boolean Functions
11:20-12:00	Mathys Rennela Towards a Quantum Domain Theory: Order-Enrichment and Fixpoints in W^* -Algebras
Lunch	
14:00-14:40	Azalea Raad, Philippa Gardner, Adam Wright and Mark Wheelhouse Abstract Local Reasoning for Concurrent Libraries: Mind the Gap
14:40-15:20	Stephen Brookes On Grainless Footprint Semantics for Shared-Memory Programs
15:20-16:20	Plenary: Alexandra Silva The Generalized Powerset Construction: Applications to Semantics and Concurrency
17:00-21:00	Excursion and Conference Dinner

Saturday June 14	
9:10-10:10	Tutorial: Radu Mardare Proof Systems for Markovian Logics: Completeness and Dualities
Break	
10:40-11:40	Plenary: Nick Benton
11:40-12:20	Dariusz Biernacki and Sergueï Lenglet Applicative Bisimilarities for Call-by-Name and Call-by-Value $\lambda\mu$ -Calculus
12:20-13:00	Marc Lasson Canonicity of Groupoid Laws Using Parametricity Theory
Lunch	
Special Session on Probabilistic Computing	
14:30-15:30	Plenary: Andy Gordon Probabilistic Programming in Tabular
15:30-16:10	Daniel M. Roy Conditional Independence, Computability, and Measurability
Break	
16:40-17:20	Chung-chieh Shan Conditioning and Density, Mathematically and Computationally
17:20-18:00	Dexter Kozen, Radu Mardare and Prakash Panangaden A Metric Analog of Stone Duality for Markov Processes
18:00-18:40	Jean Goubault-Larrecq and Achim Jung QRB, QFS, and the Probabilistic Powerdomain

Sunday June 15	
8:30-9:30	Tutorial: Doina Precup Approximate Dynamic Programming and Learning Methods for Markov Decision Processes
9:30-10:10	Simon Castellan, Jonathan Hayman, Glynn Winskel and Marc Lasson Strategies as Concurrent Processes
Break	
10:40-11:20	Giulio Manzonetto and Domenico Ruoppolo Relational Graph Models, Taylor Expansion and Extensionality
11:20-12:00	Robin Cockett and Pieter Hofstra The Total Maps of Turing Categories
12:00-13:00	Plenary: Prakash Panangaden Probabilistic Concurrent Constraint Programming
Lunch	