

09	08:30	Registration and Tea/Coffee		
10	Keynote	09:00 TBC Gerard Holzmann		
11	QEST Tutorial 1	10:00 Part I: Introduction to Markovian Agent Models Andrea Bobbio, Davide Cerotti, Marco Gribaudo	10:00 PDMC	10:00 PASM
12	QEST Tutorial 1	11:30 Part II: Modelling Spatial Applications with Markovian Agent Models Andrea Bobbio, Davide Cerotti, Marco Gribaudo	11:30 PDMC	11:30 PASM
13	12:30	Lunch		
14	Keynote	13:30 TBC William H. Sanders		
15	QEST Tutorial 2	14:30 From QoS to QoE through perceptual quality (part 1) Sofiene Jelassi, Gerardo Rubino, Kamal Singh	14:30 WRUMMM	14:30 PASM
16	15:30	Tea/Coffee		
17	QEST Tutorial 2	16:00 From QoS to QoE through perceptual quality (part 2) Sofiene Jelassi, Gerardo Rubino, Kamal Singh	16:00 WRUMMM	16:00 PASM
18	17:00	Tour of Queen's Tower		
19	19:00 – 21:30	Reception		

08:30	Registration and Tea/Coffee		
09	QEST Keynote	09:00 Empirical Randomness: Implications for Applied Stochastic Modeling Jeffrey Buzen	
10		Room G34	
10	System Performance	10:00 Decoupled Speed Scaling: Analysis and Evaluation Maryam Elahi, Carey Williamson, Philipp Woelfel	
		10:30 Continuous Performance Testing in Virtual Time Nikos Baltas, Tony Field	
11		Room G34	
11:00	Tea/Coffee		
12	Queueing	11:30 A multi-layer fluid queue with boundary phase transitions and its application to the analysis of multi-type queues with general customer impatience Gábor Horváth, Benny Van Houdt	
		12:00 Finite Queues at The Limit of Saturation Miklos Telek, Miklos Vecsei	
		Room G34	
12:30	Lunch		
13			
14	Markov and semi-Markov models	14:00 Aggregation of Markovian models – an alternating least squares approach Peter Buchholz, Jan Kriege	
15		14:30 Mean field for performance models with deterministically-timed transitions Richard Hayden	
		15:00 A two-phase Gauss-Seidel algorithm for the stationary solution of EVMDD-encoded CTMCs Yang Zhao, Gianfranco Ciardo	
		Room G34	
15:30	Tea/Coffee		
16	Markov Decision Processes	16:00 Statistical Model Checking for Markov Decision Processes David Henriques, João G. Martins, Paolo Zuliani, André Platzer, Edmund Clarke	
17		16:30 On-the-Fly Algorithms for Bisimulation Metrics Gheorghe Comanici, Prakash Panangaden, Doina Precup	
		17:00 Static Partial Order Reduction for Probabilistic Concurrent Systems Álvaro Fernández Díaz, Christel Baier, Clara Benac Earle, Lars-Ake Fredlund	
18		17:30 Verification of Two-variable Logic Revisited Michael Benedikt, Rastislav Lenhardt, James Worrell	
		Room G34	
18:00	Social activity		
19			

08:30	Registration and Tea/Coffee	
09	09:00	
Joint programme with QEST		
10	Timed Automata and Languages	10:00 Toward a Timed Theory of Channel Coding Eugene Asarin, Nicolas Basset, Marie-Pierre Béal, Aldric Degorre, Dominique Perrin
11		10:30 Frequencies in Forgetful Timed Automata Amelie Stainer
Room A		
11:00	Tea/Coffee	
12	FORMATS Keynote	11:30 Model-Driven Design-Space Exploration for Software-Intensive Embedded Systems Twan Basten
Room A		
12:30	Lunch	
13		
14	Verification and Synthesis of Timed Systems	13:30 SMT-based Induction Methods for Timed Systems Roland Kindermann, Tommi Junttila, Ilkka Niemelä
15		14:00 Static Detection of Zeno Runs in UPPAAL Networks based on Synchronization Matrices and Two Data-Variable Heuristics Jonas Rinast, Sibylle Schupp
16		14:30 Revisiting Timed Specification Theories: A Linear-Time Perspective Chris Chilton, Marta Kwiatkowska, Xu Wang
17		15:00 Robustness of Time Petri Nets under architectural constraints S. Akshay, Loic Helouet, Claude Jard, Didier Lime, Olivier H. Roux
Room A		
15:30	Tea/Coffee	
16		
16:00		
17	Joint programme with QEST	
18		
18:00	Social activity	
19		

08:30	Tea/Coffee	
09	QEST & FORMATS Keynote	09:00 Compositional Temporal Synthesis Moshe Vardi
10		Room G34
	Real Time Systems	10:00 Lower-Bound Constrained Runs in Weighted Timed Automata Patricia Bouyer, Kim Guldstrand Larsen, Nicolas Markey
		10:30 Almost-Sure Model-Checking of Reactive Timed Automata Patricia Bouyer, Thomas Brihaye, Marcin Jurdzinski, Quentin Menet
11		Room G34
11:00	Tea/Coffee	
12	Security Analysis	11:30 State-Based Analysis in ADVISE Michael Ford, Peter Buchholz, William H. Sanders
		12:00 Quantitative multirun security under active adversaries Michele Boreale and Francesca Pampaloni
		Room G34
12:30	Lunch	
14	Quantitative Semantics	13:30 Fluid approximation of CTMC with deterministic delays Luca Bortolussi, Jane Hillston
		14:00 Operational versus Weakest Precondition Semantics for the Probabilistic Guarded Command Language Friedrich Gretz, Joost-Pieter Katoen, Annabelle McIver
14:30 Generalised Communication for Interacting Agents Max Tschaikowski, Mirco Tribastone		
15:00 Interference-sensitive Preorders for MANETs Michele Bugliesi, Lucia Gallina, Sardaouna Hamadou, Andrea Marin, Sabina Rossi		
16		Room G34
15:30	Tea/Coffee	
17	Tools	16:00 Specification and computation of passage-time distributions in GPA Kohut, Hayden, Stefanek, Bradley
		16:15 HyperStar: Phase-type Fitting Made Easy Philipp Reinecke, Tilman Krauß, Katinka Wolter
		16:30 The PRISM Benchmark Suite Marta Kwiatkowska, Gethin Norman, David Parker
		16:45 A tool for solving Ph/M/c and Ph/M/c/N queues Thomas Begin, Alexandre Brandwajn
		Room G34
17:00	Tour of Queen's Tower	
18		
19	Queen's Tower	
19:00 – 22:00	Banquet	
	Senior Common Room	

08:30	Tea/Coffee	
09	09:00	
10	Joint programme with QEST	
11	11:00	
	Tea/Coffee	
12	Timed Automata	11:30 Reducing Quasi-equal Clocks in Networks of Timed Automata Christian Herrera, Bernd Westphal, Sergio Feo-Arenis, Marco Muniz, Andreas Podelski
		12:00 Timed Automata with Disjoint Activity Marco Muniz, Bernd Westphal, Andreas Podelski
		Room A
12:30		
13	Lunch	
14	Synthesis of Timed Systems	14:00 Playing Optimally on Timed Automata with Random Delays Nathalie Bertrand, Sven Schewe
15		14:30 The Complexity of Bounded Synthesis for Timed Control with Partial Observability Hans-Jörg Peter, Bernd Finkbeiner
		15:00 Counterexample-guided Synthesis of Observation Predicates Rayna Dimitrova, Bernd Finkbeiner
		Room A
15:30	Tea/Coffee	
16	MC Tools for Timed Automata	16:00 Heuristics and Search for Timed Systems Martin Wehrle, Sebastian Kupferschmid
17		16:30 Multi-Core Model Checking of Timed Automata Andreas Dalsgaard, Alfons Laarman, Kim G. Larsen, Mads Chr. Olesen, Jaco van de Pol
		Room A
17:00		
18	Tour of Queen's Tower	
19	Queen's Tower	
19:00 – 22:00	Banquet	
	Senior Common Room	

09	08:30 Tea/Coffee	
	QEST Keynote	09:00 Stochastic Modelling of Sport Michael Maher Room G34
10	Reliability	10:00 A General Reliability Model for Data Storage Systems Vinodh Venkatesan, Ilias Iliadis
		10:30 Intermittent Hardware Errors Recovery: Modeling and Evaluation Layali Rashid, Karthik Pattabiraman, Sathish Gopalakrishnan Room G34
11	11:00 Tea/Coffee	
12	Measurement and System Modeling	11:30 Flexible CPU provisioning in clouds: a new source of performance unpredictability Davide Cerotti, Marco Gribaudo, Pietro Piazzolla, Giuseppe Serazzi
		12:00 Max Percentile Replication for Optimal Performance in Multi-Regional P2P VoD Systems Yuval Rochman, Hanoch Levy, Eli Brosh
		12:30 Indirect Estimation of Service Demands in the Presence of Structural Changes Paolo Cremonesi, Andrea Sansottera Room G34
13	13:00 Lunch-to-go	
14	13:30 – 17:30 Tour of Queen's Tower Queen's Tower	

08:30	Tea/Coffee	
09	09:00	
	Joint programme with QEST	
10	FORMATS Keynote	10:00 Statistical Model Checking, Refinement Checking, Optimization, . . . for Stochastic Hybrid Systems Kim G. Larsen
11		Room A
	11:00 Tea/Coffee	
12	Hybrid systems	11:30 Confidence Bounds for Statistical Model Checking of Probabilistic Hybrid Systems Christian Ellen, Sebastian Gerwinn, Martin Fränzle
		12:00 Region-based analysis of hybrid Petri nets with a single general one-shot transition Hamed Ghasemieh, Anne Remke, Boudewijn Haverkort, Marco Gribaudo
13		12:30 Dynamically-Driven Timed Automaton Abstractions for Proving Liveness of Continuous Systems Rebekah Carter, Eva Navarro-Lopez
	Room A	
	13:00 Lunch-to-go	
14	13:30 – 17:30	
	Tour of Queen's Tower	
	Queen's Tower	