

MONDAY 17/9/2012

QEST 2012 WORKSHOPS & TUTORIALS

	08:15	Registration and Tea/Coffee			SAF Building
09	08:45	Opening remarks			Rooms 119 and 120
	Keynote	09:00 The New Frontier in Software Model Checking Gerard Holzmann			
10		Rooms 119 and 120			
	10:00	PASM	10:00	PDMC	QEST Tutorial 1
11		Rooms 119 and 120	Room 121	10:00 Part I: Introduction to Markovian Agent Models Andrea Bobbio, Davide Cerotti, Marco Gribaudo	Room 122
	11:00	Tea/Coffee			
	11:30	PASM	11:30	PDMC	QEST Tutorial 1
12		Rooms 119 and 120	Room 121	11:30 Part II: Modelling Spatial Applications with Markovian Agent Models Andrea Bobbio, Davide Cerotti, Marco Gribaudo	Room 122
13	12:30	Lunch			
	Keynote	13:30 Multiformalism Cyber Security Modeling in Mobius William H. Sanders			
14		Rooms 119 and 120			
	14:30	PASM	14:30	WRUMMM	QEST Tutorial 2
15		Rooms 119 and 120	Room 121	14:30 From QoS to QoE through perceptual quality (part 1) Sofiene Jelassi, Gerardo Rubino, Kamal Singh	Room 122
	15:30	Tea/Coffee			
16	16:00	PASM	16:00	WRUMMM	QEST Tutorial 2
17		Rooms 119 and 120	Room 121	16:00 From QoS to QoE through perceptual quality (part 2) Sofiene Jelassi, Gerardo Rubino, Kamal Singh	Room 122
18	17:00	Tours of Queen's Tower			
		Queen's Tower			
19	19:00 – 21:30	Reception			58 Prince's Gate

TUESDAY 18/9/2012

QEST

	08:15	Registration and Tea/Coffee	SAF Building
09	08:45	Opening remarks	Room G34
10	QEST Keynote	09:00 Empirical Randomness: Implications for Applied Stochastic Modeling Jeffrey Buzen	Room G34
11	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	Room G34
12	Queueing	11:00 Tea/Coffee Room 121 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 Miklós Telek, Miklós Vecsei	Room G34
13	12:30	Lunch	Queen's Tower Rooms
14	Markov and semi-Markov models	14:00 Aggregation of Markovian models – an alternating least squares approach Peter Buchholz, Jan Kriege 14:30 Mean field for performance models with deterministically-timed transitions Richard Hayden	
15		15:00 A two-phase Gauss-Seidel algorithm for the stationary solution of EVMDD-encoded CTMCs Yang Zhao, Gianfranco Ciardo	Room G34
16	15:30	Tea/Coffee	Room 121
17	Markov Decision Processes	16:00 Statistical Model Checking for Markov Decision Processes David Henriques, João G. Martins, Paolo Zuliani, André Platzer, Edmund Clarke 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 17:30 Verification of Two-variable Logic Revisited Michael Benedikt, Rastislav Lenhardt, James Worrell	Room G34
18	18:00	Bus to Westminster Pier	Outside SAF Building
19	19:00 – 23:30	Boat Trip	Westminster Pier

TUESDAY 18/9/2012

FORMATS

	08:15	Registration and Tea/Coffee	SAF Building
09	08:45	Joint programme with QEST	
10			
	Timed Automata & 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 Amélie Stainer	Room 122
	11:00	Tea/Coffee	Room 121
12	FORMATS Keynote	11:30 Model-Driven Design-Space Exploration for Software-Intensive Embedded Systems Twan Basten	Room 122
13	12:30	Lunch	Queen's Tower Rooms
14		13:30 SMT-based Induction Methods for Timed Systems Roland Kindermann, Tommi Junttila, Ilkka Niemelä	
		14:00 Static Detection of Zeno Runs in UPPAAL Networks based on Synchronization Matrices and Two Data-Variable Heuristics Jonas Rinast, Sibylle Schupp	
15	Verification and Synthesis of Timed Systems	14:30 Revisiting Timed Specification Theories: A Linear-Time Perspective Chris Chilton, Marta Kwiatkowska, Xu Wang	
		15:00 Robustness of Time Petri Nets under architectural constraints S. Akshay, Loïc Hélouët, Claude Jard, Didier Lime, Olivier H. Roux	Room 122
16	15:30	Tea/Coffee	Room 121
17	16:00	Joint programme with QEST	
18	18:00	Bus to Westminster Pier	Outside SAF Building
19	19:00 – 23:30	Boat Trip	Westminster Pier

WEDNESDAY 19/9/2012

QEST

08:30	Tea/Coffee		Room 121
09	QEST & FORMATS Keynote	09:00 Compositional Temporal Synthesis Moshe Vardi	
10		Room G34	
11	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	11:00		Room 121
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	
13	12:30		Room G34
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	
15	15:30		Room G34
16	Tea/Coffee		Room 121
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	
18	17:00		Room G34
19	19:00 – 22:00		Room G34
18	Tours of Queen's Tower		Queen's Tower
19	Banquet		170 Queen's Gate

WEDNESDAY 19/9/2012

FORMATS

09	08:30	Tea/Coffee		Room 121
10	09:00	Joint programme with QEST		
11	11:00			
12	11:30			
	12:00	Timed Automata		Room 122
13	12:30	Lunch		
14		Synthesis of Timed Systems		
15	14:00			
	14:30			
	15:00	MC Tools for Timed Automata		Room 122
16	15:30	Tea/Coffee		Room 121
17	16:00	MC Tools for Timed Automata		
18	16:30	MC Tools for Timed Automata		Room 122
19	17:00	Tours of Queen's Tower		
	19:00 – 22:00	Banquet		170 Queen's Gate

THURSDAY 20/9/2012

QEST

09	08:30 Tea/Coffee Room 121		
	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 Room 121		
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 Closing remarks Room G34		
14	13:15 Lunch-to-go Room 121		
	13:45 – 17:45 Tours of Queen’s Tower Queen’s Tower		

THURSDAY 20/9/2012

FORMATS

08:30	Tea/Coffee		Room 121
09:00	Joint programme with QEST		
10:00	FORMATS Keynote	10:00 Statistical Model Checking, Refinement Checking, Optimization, . . . for Stochastic Hybrid Systems Kim G. Larsen	Room 122
11:00	Tea/Coffee		Room 121
12:00	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	
		12:30 Dynamically-Driven Timed Automaton Abstractions for Proving Liveness of Continuous Systems Rebekah Carter, Eva Navarro-López	Room 122
13:00	Closing remarks		Room 122
13:15	Lunch-to-go		Room 121
13:45 – 17:45	Tours of Queen's Tower		Queen's Tower