

MONDAY 17/9/2012 QEST 2012 WORKSHOPS & TUTORIALS

08:15	Registration and Tea/Coffee			SAF Building
08:45	Opening remarks			Room 119
09	Room 119			
PDMC Keynote				
10	PASM Welcome Room 119			Room 119
PASM	10:20 Markov chain simulation with fewer random samples Dimitrios Milios, Stephen Gilmore			Room 121
PDMC	10:00 Multi-core BDD Operations for Symbolic Reachability Tom van Dijk, Alfons Laarman, Jaco van de Pol			
11	10:40 Discrete time stochastic Petri box calculus with immediate multiactions Igor Tarasyuk, Hermenegilda Macia, Valentin Valero Room 119			Room 122
PDMC	10:20 Large-scale Distributed Verification using CADP: Beyond Clusters to Grids Hubert Garavel, Radu Mateescu, Wendelin Serwe			Room 122
PDMC	10:40 LCT: A Parallel Distributed Testing Tool for Multithreaded Java Programs Kari Kähkönen, Olli Saarikivi, Keijo Heljanko Room 121			
11:00	Tea/Coffee			
12	11:30 Extending a Synthesis-Centric Model-Based Systems Engineering Framework with Stochastic Model Checking Jasen Markovski, Enrique Estens Musa, Michel Reniers			Room 122
PASM	11:50 Backward solution of Markov chains and Markov Renewal Processes: formalization and applications Elvio Gilberto Amparore, Susanna Donatelli			
PDMC	11:30 Extending LTSmin with Promela through SpinJa Freak van der Berg, Alfons Laarman			
12:10	12:10 A structured stochastic model for prediction of geological stratal stacking patterns Joaquim Assuncao, Luciana Espindola, Paulo Fernandes, Maria Pivel, Afonso Sales Room 119			Room 122
PDMC	11:50 Distributed LTL Model Checking with Hash Compaction Jiri Barnat, Jan Havlicek, Petr Rockai Room 121			Room 122
12:10	12:10 PDMC Closing Remarks Room 121			
12:30	Lunch			
13	Room 119			
WRUMMM Keynote				
14	14:30 Energy-aware management of customer streams Kanat Aidarov, Paul Ezhilchelvan, Isi Mitrani			Room 122
PASM	14:50 Modeling and Evaluation of Wireless Sensor Network Protocols by Stochastic Timed Automata Fengling Zhang, Lei Bu, Linzhang Wang, Jianhua Zhao, Xuandong Li			
WRUMMM	14:30 Combining heterogeneity, compositionality and automatic generation in formal modeling Stefano Marrone, Nicola Mazzocca, Roberto Nardone, Valeria Vittorini			
15	15:10 Exploiting product form solution techniques in multiformalism modeling Enrico Barbierato, Gian-Luca Dei Rossi, Marco Gribaudo, Mauro Iacono, Andrea Marin Room 119			Room 122
WRUMMM	14:50 A meta-model based approach to the definition of the analysis results of Petri-Net models Simona Bernardi			Room 122
WRUMMM	15:10 Towards a multi-formalism multi-solution framework for model-driven performance engineering Catalina M. Lladó, Pere Bonet, Connie Smith Room 121			
15:30	Tea/Coffee			
16	16:00 Conservation of Mass Analysis for Bio-PEPA Allan Clark, Stephen Gilmore, Maria Luisa Guerriero, Jane Hillston			Room 122
PASM	16:20 PEPA Oysters: Converting Dynamic Energy Budget Models to Bio-PEPA, illustrated by a Pacific oyster case study Erin Scott, Andrew Hoyle, Carron Shankland			
WRUMMM	16:00 A unified modelling and operational framework for Fault Detection, Identification and Recovery in autonomous spacecrafts Codetta-Raiteri, Portinale, Di Nolfo, Guiotto, Yushtein			
17	16:40 Stochastic Modelling of the Kai-based Circadian Clock A. Clark, S. Gilmore, A. Georgoulas, J. Hillston, I. Stark, C. Banks and D. Milios Room 119			Room 122
WRUMMM	16:20 Multiformalism modeling composability in SIMTHESys Enrico Barbierato Room 121			Room 122
16:40	16:40 WRUMMM Closing Remarks Room 121			
17:00	Tours of Queen's Tower Two 45-minute tours for 8 people each. Please sign up at the registration desk.			
18				
19:00 – 21:30	Reception			58 Prince's Gate

08:15	Registration and Tea/Coffee		SAF Building
08:45	Opening remarks		Room G34
09	QEST Keynote	09:00 Empirical Randomness: Implications for Applied Stochastic Modeling Jeffrey Buzen	
		Room G34	
10	System Performance <i>Eugenia Smirni</i>	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	
11:00	Tea/Coffee		Room 121
12	Queueing <i>Gianfranco Balbo</i>	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	
12:30	Lunch		Queen's Tower Rooms
14	Markov and semi-Markov models <i>Mirco Tribastone</i>	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 EVMD-encodable CTMCs Yang Zhao, Gianfranco Ciardo	
		Room G34	
15:30	Tea/Coffee		Room 121
17	Markov Decision Processes <i>Pedro D'argenio</i>	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	
18:00	Bus to Westminster Pier		Outside SAF Building
19:00 – 23:30	Boat Trip		Westminster Pier

08:15	Registration and Tea/Coffee		SAF Building
08:45	Joint programme with QEST		
10	Timed Automata & Languages <i>Thomas Brihaye</i>	10:00 Toward a Timed Theory of Channel Coding Eugene Asarin, Nicolas Basset, Marie-Pierre Béal, Aldric Degorre, Dominique Perrin	
		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	
12:30	Lunch		Queen's Tower Rooms
14	Verification and Synthesis of Timed Systems <i>Franck Cassez</i>	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	
		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	
15:30	Tea/Coffee		Room 121
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08:30	Tea/Coffee		Room 121
09	QEST & FORMATS Keynote	09:00 Compositional Temporal Synthesis Moshe Vardi	Room G34
10		10:00 Lower-Bound Constrained Runs in Weighted Timed Automata Patricia Bouyer, Kim Guldstrand Larsen, Nicolas Markey	
	Real Time Systems Nathalie Bertrand	10:30 Almost-Sure Model-Checking of Reactive Timed Automata Patricia Bouyer, Thomas Brihaye, Marcin Jurdzinski, Quentin Menet	Room G34
11		11:00 Tea/Coffee	
	Security Analysis Enrico Vicario	11:30 State-Based Analysis in ADVISE Michael Ford, Peter Buchholz, William H. Sanders	
12		12:00 Quantitative multirun security under active adversaries Michele Boreale and Francesca Pampaloni	Room G34
12:30	Lunch		Queen's Tower Rooms
	Quantitative Semantics Markus Siegle	13:30 Fluid approximation of CTMC with deterministic delays Luca Bortolussi, Jane Hillston	
14		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		15:00 Interference-sensitive Preorders for MANETs Michele Bugliesi, Lucia Gallina, Sardaouna Hamadou, Andrea Marin, Sabina Rossi	Room G34
15:30	Tea/Coffee		Room 121
	Tools Ken Keefe	16:00 Specification and computation of passage-time distributions in GPA Kohut, Hayden, Stefanek, Bradley	
16		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	
17		16:45 A tool for solving Ph/M/c and Ph/M/c/N queues Thomas Begin, Alexandre Brandwajn	Room G34
17:00	Tours of Queen's Tower Two 45-minute tours for 8 people each. Please sign up at the registration desk.		Queen's Tower
19:00 – 22:00	Banquet		170 Queen's Gate

08:30	Tea/Coffee		Room 121
09	09:00		
10	Joint programme with QEST		
11	11:00 Tea/Coffee		Room 121
	Timed Automata Eugene Asarin	11:30 Reducing Quasi-equal Clocks in Networks of Timed Automata Christian Herrera, Bernd Westphal, Sergio Feo-Arenis, Marco Muniz, Andreas Podelski	
12		12:00 Timed Automata with Disjoint Activity Marco Muñoz, Bernd Westphal, Andreas Podelski	Room 122
12:30	Lunch		Queen's Tower Rooms
14	Synthesis of Timed Systems Olivier Roux	14:00 Playing Optimally on Timed Automata with Random Delays Nathalie Bertrand, Sven Schewe	
		14:30 The Complexity of Bounded Synthesis for Timed Control with Partial Observability Hans-Jörg Peter, Bernd Finkbeiner	
15		15:00 Counterexample-guided Synthesis of Observation Predicates Rayna Dimitrova, Bernd Finkbeiner	Room 122
15:30	Tea/Coffee		Room 121
	Model Checking Tools for Timed Automata Aldric Degerre	16:00 Mcta: Heuristics and Search for Timed Systems Martin Wehrle, Sebastian Kupferschmid	
16		16:30 Multi-Core Reachability for Timed Automata Andreas Dalsgaard, Alfons Laarman, Kim G. Larsen, Mads Chr. Olesen, Jaco van de Pol	Room 122
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THURSDAY 20/9/2012
QEST

08:30	Tea/Coffee		Room 121
09	QEST Keynote	09:00 Stochastic Modelling of Sport Michael Maher	Room G34
10	Reliability <i>Miklós Telek</i>	10:00 A General Reliability Model for Data Storage Systems Vinodh Venkatesan, Ilias Iliadis	Room G34
		10:30 Intermittent Hardware Errors Recovery: Modeling and Evaluation Layali Rashid, Karthik Pattabiraman, Sathish Gopalakrishnan	
11	11:00 Tea/Coffee		Room 121
12	Measurement and System Modeling <i>Nigel Thomas</i>	11:30 Flexible CPU provisioning in clouds: a new source of performance unpredictability Davide Cerotti, Marco Gribaudo, Pietro Piazzolla, Giuseppe Serazzi	Room G34
		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	
13	13:00 Closing remarks		Room G34
	13:15 Lunch-to-go		Room 121
14	13:45 – 17:45 Tours of Queen's Tower Five 45-minute tours for 8 people each. Please sign up at the registration desk.		Queen's Tower

THURSDAY 20/9/2012
FORMATS

08:30	Tea/Coffee		Room 121
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	Room 122
11	11:00 Tea/Coffee		Room 121
12	Hybrid systems <i>Oded Maler</i>	11:30 Confidence Bounds for Statistical Model Checking of Probabilistic Hybrid Systems Christian Ellen, Sebastian Gerwin, Martin Fränzle	Room 122
		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	
13	13:00 Closing remarks		Room 122
	13:15 Lunch-to-go		Room 121
14	13:45 – 17:45 Tours of Queen's Tower Five 45-minute tours for 8 people each. Please sign up at the registration desk.		Queen's Tower