Tuesday 27th of August

8:45-10:00	Opening		
	CONCUR & QEST Invited Speaker (Salón de actos)		
	Lorenzo Alvisi. Reasoning with MAD Distributed Systems.		
10:00-10:30	Coffee Break		
Room	Salón de actos	212	
10:30-12:30	 CONCUR: Process Semantics and Modal Transition Systems Martin Churchill, Peter Mosses and Mohammadreza Mousavi. Modular Semantics for Transition System Specifications with Negative Premises Giovanni Bernardi and Matthew Hennessy. Mutually testing processes Nikola Benes, Benoit Delahaye, Uli Fahrenberg, Jan Kretinsky and Axel Legay. Hennessy-Milner Logic with Greatest Fixed Points as a Complete Behavioural Specification Theory Shoham Ben-David, Marsha Chechik and Sebastian Uchitel. Merging Partial Behaviour Models with Different Vocabularies 	 QEST: Population Models Luca Bortolussi and Guido Sanguinetti. Learning and designing stochastic processes from logical constraints David Spieler. Characterizing oscillatory and noisy periodic behavior in Markov population models Luca Bortolussi and Roberta Lanciani. Central Limit Approximation for Stochastic Model Checking Laura Aspirot, Ernesto Mordecki and Gerardo Rubino. Fluid Limit for the Machine Repairman Model with Phase-Type Distributions 	
12:30-14:00	Lunch		
14:00-16:00	CONCUR: VAS and Pushdown Systems	QEST: Probabilistic Automata & Markov Automata	
	 Parosh Aziz Abdulla, Richard Mayr, Arnaud Sangnier and Jeremy Sproston. Solving Parity Games on Integer Vectors Xiaojuan Cai and Mizuhito Ogawa. Well-Structured Pushdown Systems Jerome Leroux, M. Praveen and Grégoire Sutre. A Relational Trace Logic for Vector Addition Systems with Application to Context-Freeness Rupak Majumdar and Zilong Wang. Expand, Enlarge, and Check for Branching Vector Addition Systems 	 Benoit Delahaye, Uli Fahrenberg, Kim Guldstrand Larsen and Axel Legay. Refinement and Difference for Probabilistic Automata Ralf Wimmer, Nils Jansen, Andreas Vorpahl, Erika Abraham, Joost-Pieter Katoen and Bernd Becker. High-level Counterexamples for Probabilistic Automata Dennis Guck, Hassan Hatefi, Holger Hermanns, Joost-Pieter Katoen and Mark Timmer. Modelling, Reduction and Analysis of Markov Automata Andrea Turrini, Christian Eisentraut, Holger Hermanns, Julia Kraemer and Lijun Zhang. Deciding Bisimilarities on Distributions 	
16:00-16:30	Coffee	Break	
16:30-18:00	 CONCUR: π calculus and Interaction Nets Vasileios Koutavas and Matthew Hennessy. Symbolic Bisimulation for a Higher-Order Distributed Language with Passivation Reiner Hüchting, Rupak Majumdar and Roland Meyer. A Theory of Name Boundedness Andrei Dorman and Damiano Mazza. A Hierarchy of Expressiveness in Concurrent Interaction Nets 	 QEST: Tool Demos I Rastislav Lenhardt. Tulip: Model Checking Probabilistic Systems using EM Algorithm Sean Sedwards, Benoît Boyer, Kevin Corre and Axel Legay. PLASMA-lab: a flexible, distributable statistical model checking library Yi Deng, Akshay Rajhans and A. Agung Julius. STRONG: A Trajectory-Based Verification Toolbox for Hybrid System Nikolas Anastasiou and William Knottenbelt. Inferring Performance Models from Location Tracking Data using the Petri Net Performance Model Construction Tool (PEPERCORN) Barbara Kordy, Piotr Kordy, Sjouke Mauw and Patrick Schweitzer. ADTool: Security Analysis with Attack-Defense Trees 	
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	Reception at Palacio San Martín		

Wednesday 28th of August

Room	Salón de actos	212
9:00-10:00	CONCUR Invited Speaker	QEST Invited Speaker
	Phillipe Schnoebelen. <i>The Power of Well-Structured Systems</i>	Gilles Barthe. Computer-aided security proofs
10:00-10:30	Coffee Break	
10:30-12:30	 CONCUR: Linearizability and Verification of Concurrent Programs Klaus von Gleissenthall and Andrey Rybalchenko. An Epistemic Perspective on Consistency of Concurrent Computations Hongjin Liang, Jan Hoffmann, Xinyu Feng and Zhong Shao. Observing Progress Properties via Contextual Refinements Thomas A. Henzinger, Ali Sezgin and Viktor Vafeiadis. Aspect-oriented linearizability proofs Andrey Kupriyanov and Bernd Finkbeiner. Causality-based Verification of Multi-threaded Programs 	 QEST: Model Checking & Systems Vladimir Klebanov, Norbert Manthey and Christian Muise. SAT-based Analysis and Quantification of Information Flow in Programs Friedrich Gretz, Joost-Pieter Katoen and Annabelle McIver. Prinsys – on a Quest for Probabilistic Loop Invariants David N. Jansen, Lei Song and Lijun Zhang. Revisiting Weak Simulation for Substochastic Markov Chains Miyuru Dayarathna and Toyotaro Suzumura. A Performance Analysis of System S, S4, and Esper via Two Level Benchmarking
12:30-14:00	Programs Two Level Benchmarking Lunch	
14:00-16:00	CONCUR: Verification of Infinite Models, Model Measure and Reversibility • Thomas Henzinger and Jan Otop. From Model Checking to Model Measuring • Jonathan Kochems and Luke Ong. Safety Verification of Asynchronous Pushdown Systems with Shaped Stacks • Iain Phillips and Irek Ulidowski. Reversibility and Asymmetric Conflict in Event Structures • Christoph Haase, Sylvain Schmitz and Philippe Schnoebelen. The Power of Priority Channel Systems	 QEST: Systems Vinodh Venkatesan and Ilias Iliadis. Effect of Codeword Placement on the Reliability of Erasure Coded Data Storage Systems Daniel Happ and Katinka Wolter. Fault-Impact Models based on delay and packet loss for IEEE 802.11g QEST: Tools Demos II Dieky Adzkiya and Alessandro Abate. VeriSiMPL: Verification via biSimulations of MPL models Giorgio Bacci, Giovanni Bacci, Kim Guldstrand Larsen and Radu Mardare. A Tool for Efficiently Computing Bisimilarity Distances for Markovian Models Ken Keefe and William Sanders. Mobius Shell: A Command-line Interface For Mobius Lucas Oleksinski, Claiton Correa, Fernando Luís Dotti and Afonso Sales. A CTL Model Checker for Stochastic Automata Networks
16:00-16:30	Coffee Break	
16:30-20:00	Discovering Buenos Aires	
Starting 20:00	Banquet and Event at Café Los Angelitos	

Thursday 29th of August

9:00-10:00	CONCUR & FORMATS Invited Speaker (Salón de actos) Reinhard Wilhelm. Impact of Resource Sharing on Performance and Performance Prediction: A Survey	
10:00-10:30	Coffee Break	
Room	Salón de actos	212
10:30-12:30	 CONCUR: Stochastic Models Shenggang Ying, Yuan Feng, Nengkun Yu and Mingsheng Ying. Reachability Probabilities of Quantum Markov Chains Holger Hermanns and Andrea Turrini. Cost Preserving Bisimulations for Probabilistic Automata Holger Hermanns, Jan Krcal and Jan Kretinsky. Compositional Verification and Optimization of Interactive Markov Chains Vincent Danos, Russ Harmer and Ricardo Honorato-Zimmer. Thermodynamic graphrewriting 	 FORMATS: Verification, Analysis & Semantics of Timed Models I Willibald Krenn, Dejan Nickovic and Loredana Tec. Incremental Language Inclusion Checking for Networks of Timed Automata Manuel Garnacho, Jean-Paul Bodeveix and Mamoun Filali-Amine. A Mechanized Semantic Framework for Real-Time Systems Christos Stergiou, Stavros Tripakis, Eleftherios Matsikoudis and Edward Lee. On the Verification of Timed Discrete-Event Models Eleftherios Matsikoudis and Edward Lee. On Fixed Points of Strictly Causal Functions
12:30-14:00	Lunch	
14:00-16:00	 CONCUR: Message-based Interacting Processes Dimitrios Kouzapas and Nobuko Yoshida. Globally Governed Session Semantics Vivek Nigam, Carlos Olarte and Elaine Pimentel. A General Proof System for Modalities in Concurrent Constraint Programming Fabrizio Montesi and Nobuko Yoshida. Compositional Choreographies Javier Esparza and Jörg Desel. On Negotiation as Concurrency Primitive 	 QEST: Control & Games S. Akshay, Nathalie Bertrand, Serge Haddad and Loic Helouet. The steady-state control problem for Markov decision processes Majid Zamani and Alessandro Abate. Symbolic Control of Stochastic Switched Systems via Finite Abstractions Taolue Chen, Marta Kwiatkowska, Aistis Simaitis and Clemens Wiltsche. Synthesis for Multi-Objective Stochastic Games: An Application to Autonomous Urban Driving Parosh Aziz Abdulla, Lorenzo Clemente, Richard Mayr and Sven Sandberg. Stochastic Parity Games on Lossy Channel Systems
16:00-16:30	Coffee Break	
16:30-18:00	 CONCUR: Principles of Automatic Verification Claudia Carapelle, Alexander Kartzow and Markus Lohrey. Satisfiability of CTL* with constraints Sjoerd Cranen, Tim Willemse and Bas Luttik. Proof graphs for parameterized Boolean equation systems Vijay D'Silva. A Generalization of Simulation to Abstract Domains 	 FORMATS: Exploring Timed Formalisms David N. Jansen. More or Less True: DCTL for Continuous-Time MDPs Guoqiang Li, Xiaojuan Cai, Mizuhito Ogawa and Shoji Yuen. Nested Timed Automata Thomas Brihaye, Morgane Estiévenart and Gilles Geeraerts. On MITL and alternating timed automata

Friday 30th of August

Room	Salón de actos	212
9:00-10:00	CONCUR Invited Speaker Joost-Pieter Katoen. Concurrency meets Probability: Theory and Practice	QEST Invited Speaker Edmundo de Souza e Silva. On the Interplay between Content Popularity and Performance in P2P Systems
10:00-10:30	Coffee Break	
10:30-12:30	TGC Invited Speaker Luca de Alfaro. " TBA" TGC: Security Ian Batten, Shiwei Xu and Mark Ryan. Dynamic measurement and protected execution: model and analysis Dominic Duggan and Ye Wu. Security Correctness for Secure Nested Transactions	FORMATS & QEST joint session: Timed Automata & Simulation • Peter Höfner and Maryam Kamali. Quantitative Analysis of AODV and its Variants on Dynamic Topologies using Statistical Model Checking (FORMATS) • Paolo Ballarini, Nathalie Bertrand, Andras Horvath, Marco Paolieri and Enrico Vicario. Transient Analysis of Networks of Stochastic Timed Automata using Stochastic State Classes (QEST) • Daniel Reijsbergen, Pieter-Tjerk de Boer, Werner Scheinhardt and Boudewijn Haverkort. Automated Rare Event Simulation for Stochastic Petri Nets (QEST) • Ansgar Fehnker, Peter Hoefner, Maryam Kamali and Vinay Mehta. Transition-based Mobility Models for Wireless Networks (QEST)
12:30-14:00	Lunch	
14:00-16:00	 CONCUR: Games and Control Synthesis Krishnendu Chatterjee and Yaron Velner. Hyperplane Separation Technique for Multidimensional Mean-Payoff Games Julian Gutierrez and Glynn Winskel. Borel Determinacy of Concurrent Games Thomas Dueholm Hansen, Rasmus Ibsen-Jensen and Peter Bro Miltersen. A Faster Algorithm for Solving One-Clock Priced Timed Games Ocan Sankur, Patricia Bouyer, Nicolas Markey and Pierre-Alain Reynier. Robust Controller Synthesis in Timed Automata 	 TGC: π-calculus Hans Hüttel. Types for resources in psi-calculi Johannes Borgström, Ramūnas Gutkovas, Joachim Parrow, Björn Victor and Johannes Åman Pohjola. A Sorted Semantic framework for Applied Process Calculi Neda Saeedloei and Gopal Gupta. Timed pi-calculus Marco Giunti and António Ravara. Static deadlock resolution in the pi-calculus
16:00-16:30	Coffee Break	
16:30-18:00	 TGC: Information Flow Pejman Attar and Ilaria Castellani. Fine-grained and Coarse-grained Reactive Noninterference Luísa Lourenço and Luis Caires. Information Flow Analysis for Valued-Indexed Data Security Compartments Pablo Buiras, Deian Stefan, Amit Levy, Alejandro Russo and David Mazieres. A Library For Removing Cache-based Attacks in Concurrent Information Flow Systems 	 FORMATS: Scheduling and Control Pranav Tendulkar, Peter Poplavko and Oded Maler. Symmetry Breaking for Multi-Criteria Mapping and Scheduling on Multicores Dominik Wojtczak. Optimal Control for Linear-Rate Multi-Mode Systems Franck Cassez and Alban Grastien. Predictability of Event Occurrences in Timed Systems

Saturday 31st of August

	Room Salón de actos	212
9:00-10:00	TGC Invited Speaker Nobuko Yoshida. Multiparty session types and their application in large distributed systems	FORMATS: Time Petri Nets and Distributed Models • Thomas Chatain and Claude Jard. Back in Time
		 Petri Nets Étienne André, Giuseppe Pellegrino and Laure Petrucci. Precise Robustness Analysis of Time Petri Nets with Inhibitor Arcs Bernadette Charron-Bost, Matthias Függer and Thomas Nowak. Transience Bounds for Distributed Algorithms
10:00-10:30	Coffee Break	Thigo to this
10:30-11:00	TGC: Models, Specifications, and Proofs	Coffee Break
11:00-12:30	 Serge Haddad, Rolf Hennicker and Mikael H. Møller. Specification of Asynchronous Component Systems with Modal I/O-Petri Nets Andrea Corradini, Leila Ribeiro, Odorico Mendizabal and Fernando Luís Dotti. A Formal Model for the Deferred Update Replication Technique Gustavo Petri. Studying Operational Models of Relaxed Concurrency Martin Nordio, Cristiano Calcagno and Bertrand Meyer. Certificates and Separation Logic 	FORMATS: Verification, Analysis & Semantics of Timed Models II
		 Marco Muniz, Bernd Westphal and Andreas Podelski. Detecting Quasi-Equal clocks in Timed Automata Mark Timmer, Jaco Van De Pol and Mariëlle I A Stoelinga. Confluence Reduction for Markov Automata Patricia Bouyer, Nicolas Markey and Ocan Sankur. Robust Weighted Timed Automata and Games Eugene Asarin, Nicolas Basset and Aldric Degorre. Spectral Gap in Timed Automata
12:30-13:00	Lunch	FORMATS - Closing
13:00-14:00	Bunen	Lunch
14:00-16:00	TGC Invited Speaker Jane Hilston. Fluid Approximation for Analysis of Collective Adaptive Systems	
	 TGC: Quantitative Analysis Diego Latella, Michele Loreti and Mieke Massink. On-the-fly Fast Mean-Field Model-Checking Marco Bernardo, Rocco De Nicola and Michele Loreti. Group-by-Group Probabilistic Bisimilarities and their Logical Characterizations TGC - Closing 	
16:00-16:30	Coffee Break	1