

Pre-Conference Satellite Workshops: Programme

Saturday, March 16, 2013

9:00 – 11:00	AiSoS 1 (room E)	<ul style="list-style-type: none"> 9.00 – 10.00: Eric Honour. <i>Verification and Validation Issues in Systems of Systems</i> (invited talk) 10.00 – 10.30: Goetz Botterweck. <i>Variability and Evolution in Systems of Systems</i> 10.30 – 11.00: Luca Pazzi. <i>Systems of Systems Modeled by a Hierarchical Part-Whole State-Based Formalism</i>
	DICE 1 (room D)	<ul style="list-style-type: none"> 9.30 – 10.00: <i>Opening</i> 10.00 – 11.00: Jean-Yves Marion. <i>Evolving Structures and Ramified Information Flow</i> (invited talk)
	Found. Sys. Spec. 1 (room F)	TBA
	SR 1 (room C)	<ul style="list-style-type: none"> 9.45 – 10.00: <i>Welcome to SR 2013</i> 10.00 - 11:00: Michael Wooldridge, <i>Bad Equilibria (and what to do about them)</i> (invited talk)
	VSSE 1 (room G)	<ul style="list-style-type: none"> 9.00 – 10.00: Hermann Kopetz. <i>Systems-of-Systems Complexity</i> (invited talk) 10.00 – 10.30: Min Zhang, Kazuhiro Ogata and Kokichi Futatsugi. <i>Dynamic Software Updates</i> 10.30 – 11.00: Anthony Cachia, Mark Micallef and Christian Colombo. <i>Towards Incremental Mutation Testing</i>
11.00 – 11.30	Coffee break	
11.30 – 12.30	AiSoS 2 (room E)	11.30 – 12.30: Corina Pasareanu. <i>Memorized Symbolic Execution</i> (invited talk)
	DICE 2 (room D)	<ul style="list-style-type: none"> 11.30 – 12.00: Patrick Baillot and Ugo Dal Lago. <i>On higher-order quasi-interpretations and type systems for polynomial time complexity</i> 12.00 – 12.30: Kazushige Terui. <i>Semantic evaluation, intersection types and complexity of simply typed lambda calculus II</i>
	Found. Sys. Spec. 2 (room F)	TBA
	SR 2 (room C)	<ul style="list-style-type: none"> 11.30 – 12.00: Kristine Harjes and Pavel Naumov. <i>Functional Dependence in Strategic Games</i> 12.00 – 12.30: Umberto Grandi, Andrea Loreggia, Francesca Rossi, K. Brent Venable and Toby Walsh. <i>Restricted Manipulation in Iterative Voting: Convergence and Condorcet Efficiency</i>
	VSSE 2 (room G)	<ul style="list-style-type: none"> 11.30 – 12.30: Eran Yahav. <i>Abstract Semantic Differencing for Numerical Programs</i> (invited talk)
12.30 – 14.00	Lunch	
14.00 – 15.30	AiSoS 3 (room E)	<ul style="list-style-type: none"> 14.00 – 15.00: Boudewijn R. Haverkort. <i>On the changing role of data in embedded systems and systems of systems</i> (invited talk) 15.00 – 15.30: Discussion
	DICE 3 (room D)	<ul style="list-style-type: none"> 14.00 – 15.00: Marko van Eekelen. <i>Resource Consumption Analysis with Polynomial Interpolation</i> (invited talk) 15.00 – 15.30: Ugo Dal Lago and Giulio Pellitta. <i>Bounded Polarized Linear Logic</i>

	Found. Sys. Spec. 3 (room F)	TBA
	SR 3 (room C)	<ul style="list-style-type: none"> 14.30 – 15.30: Jean-Francois Raskin. <i>Looking at Mean-Payoff and Total-Payoff through Windows</i> (invited talk)
	VSSE 3 (room G)	<ul style="list-style-type: none"> 14.00 – 14.30: Fabrizio Pastore. <i>Static Upgrade Checking with Dynamically Generated Assertions</i> 14.30 – 15.00: Nassim Seghir. <i>Verification on the fly in Visual Studio</i> 15.00 – 15.30: Grigory Fedukovich. <i>EvolCheck: Incremental Model Checking for Upgrade Checks</i>
15.30 – 16.00	Tea break	
16.00 – 18.00	AiSoS 4 (room E)	<ul style="list-style-type: none"> 16.00 – 16.30: Axel Legay. <i>Contracts and Behavioral Patterns for SoS: The EU IP DANSE approach</i> 16.30 – 17.00: Leonardo Mangeruca. <i>SoS contract verification using statistical model checking</i> 17.00 – 17.30: Manuela L. Bujorianu. <i>A coordination model for ultra-large scale systems of systems</i> 17.30 – 18.00: Discussion
	DICE 4 (room D)	<ul style="list-style-type: none"> 16.00 – 16.30: Lorenzo Tortora De Falco and Daniel De Carvalho. <i>A semantic account of strong normalization in Linear Logic</i> 16.30 – 17.00: Paulin Jacobé De Naurois. <i>Petri Nets With Split/Join Transitions as MELL sequent derivations</i>
	Found. Sys. Spec. 4 (room F)	TBA
	SR 4 (room C)	<ul style="list-style-type: none"> 16.00 – 16.30: Soumya Paul and Nicholas Asher. <i>Infinite Games with Uncertain Moves</i> 16.30 – 17.00: Nils Bulling and Valentin Goranko. <i>How to Be Both Rich and Happy: Combining Quantitative and Qualitative Strategic Reasoning about Multi-Player Games</i> 17.00 – 17.30: Rayna Dimitrova and Bernd Finkbeiner. <i>Lossy Channel Games under Incomplete Information</i> 17.30 – 18.00: Marta Kwiatkowska, David Parker and Aistis Simaitis. <i>Strategic Analysis of Trust Models for User-Centric Networks</i>

Sunday, March 17, 2013

9:00 – 11:00	ACCAT 1 (room B2)	<ul style="list-style-type: none"> 9.15: Opening 9.30 – 10.00: Samson Abramsky. <i>Looking Outwards: Category Theory and Computer Science Among the Sciences</i> 10.00 – 10.30: Robin Cockett. <i>Concurrency and the Categorical Proof Theory of Message Passing</i> 10.30 – 11.00: Barbara König. <i>A Coalgebraic Perspective on Minimization and Determinization</i>
	BX 1 (room F)	<ul style="list-style-type: none"> 9.00 – 9.05: Opening remarks 9.05 – 9.30: Michael Johnson and Robert Rosebrugh. <i>Delta lenses and opfibrations</i> 9.30 – 9.55: Nuno Macedo, Hugo Pacheco, Alcino Cunha and José Nuno Oliveira. <i>Composing Least-change Lenses</i> 9.55 – 10.20: Raghu Rajkumar, Sam Lindley, Nate Foster and James Cheney. <i>Lenses for Web Data</i> 10.20 – 10.45: Anthony Anjorin, Sebastian Rose, Frederik Deckwerth and Andy Schürr. <i>Asymmetric Delta Lenses with View Triple Graph Grammars</i> 10.45 – 11.00: Discussion
	DICE 5 (room D)	<ul style="list-style-type: none"> 09.30 – 10.30: Paul-André Melliès. <i>Sharing and Duplication in Tensorial Logic</i> (invited talk) 10.30 – 11.00: Paolo Parisen Toldin and Jean-Yves Moyen. <i>iSAPP, a complete polytime complexity verifier tool for Probabilistic Polynomial Time</i>

	HAS 1 (room G)	<ul style="list-style-type: none"> 9.00 – 9.45: Radu Grosu. <i>Adaptive Runtime Verification</i> (invited talk) 9.45 – 10.10: Elodie Chantry and Pauline Ribot. <i>An Integrated Framework for Diagnosis and Prognosis of Hybrid Systems</i> 10.10 – 10.35: Jan Kuratko and Stefan Ratschan. <i>Falsification of Hybrid Systems with Non-linear Dynamics Using Optimization and Sensitivity Analysis</i> 10.35 – 11.00: Rafael Wisniewski and Christoffer Sloth. <i>Completeness of Lyapunov Abstraction</i>
	Hot-Spot 1 (room E)	<ul style="list-style-type: none"> 8.45 – 9.00: Opening remarks 9:00 – 10.00: Olivier Pereira. <i>Vote Privacy, Revisited: New Definitions, Tools and Constructions</i> (invited talk) 10.00 – 10.30: Sebastian Mödersheim, Pascal Lafourcade, Ali Kassem and Yassine Lakhnech. <i>Multiple independent lazy intruders</i> 10.30 – 11.00: Myrto Arapinis, Loretta Mancini, Eike Ritter and Mark Ryan. <i>Pseudonyms in Mobile Telephony Systems: Good Principles but Weak Implementations</i>
	MBT 1 (room B1)	<ul style="list-style-type: none"> 9.00 – 09.10: Opening and Welcome 9.10 – 10.20: Jan Peleska. <i>Industrial-Strength Model-Based Testing - State of the Art and Current Challenges</i> (invited talk) 10.20 – 11.00: Isabel Nunes and Filipe Luís. <i>Testing Java implementations of algebraic specifications</i>
	MEALS 1 (room A2)	<ul style="list-style-type: none"> 9.00 – 10.00 AMUSE-GEUELE: <ul style="list-style-type: none"> Dino Distefano. <i>A Voyage to the Deep-Heap</i> (invited talk) 10.00 – 11.00 ENTRÉE: <ul style="list-style-type: none"> Hernàn Melgratti. <i>Realisation of Choreographies and Multi-party Session Types</i> Nicolàs Bordenabe. <i>Geo-Indistinguishability: Differential Privacy for Location-Based Systems</i>
	SR 5 (room C)	<ul style="list-style-type: none"> 9.00 – 9.30: Truls Pedersen, Sjur Kristoffer Dyrkolbotn, Piotr Kaźmierczak and Erik Parmann. <i>Concurrent Game Structures with Roles</i> 9.30 – 10.00: Simon Busard, Charles Pecheur, Hongyang Qu and Franco Raimondi. <i>Reasoning about Strategies under Partial Observability and Fairness Constraints</i> 10.00 – 10.30: Dimitar Guelev. <i>Reducing Validity in Epistemic ATL to Validity in Epistemic CTL</i> 10.30 – 11.00: Christophe Chareton, Julien Brunel and David Chemouil. <i>Towards an Updatable Strategy Logic</i>
	TUTORIALS (room A1)	Ralf Küsters. <i>E-Voting</i>
11.00 – 11.30	Coffee break	
11.30 – 12.30	ACCAT 2 (room B2)	<ul style="list-style-type: none"> 11.30 – 12.00: Ugo Montanari. <i>Indexing Processes with Computational Resources</i> 12.00 – 12.30: Till Mossakowski. <i>Institutes and Institutions: From Category Theory to Set Theory and Back</i>
	BX 2 (room F)	<ul style="list-style-type: none"> 11.30 – 11.55: Romina Eramo and Alessio Bucaioni. <i>Understanding bidirectional transformations with TGGs and JTL</i> 11.55 – 12.20: Stephan Hildebrandt, Leen Lambers, Holger Giese, Jan Rieke, Joel Greenyer, Wilhelm Schäfer, Marius Lauder, Anthony Anjorin and Andy Schürr. <i>A Survey of Triple Graph Grammar Tools</i> 12.20 – 12.30: Discussion
	DICE 6 (room D)	<ul style="list-style-type: none"> 11.30 – 12.00: Brian Redmond. <i>Stratified Combinatory Logic and Lower Complexity</i> 12.00 – 12.30: Thomas Seiller and Clément Aubert. <i>Logarithmic Space and Permutations</i>
	HAS 2 (room G)	<ul style="list-style-type: none"> 11.35 – 12.00: Alberto Casagrande, Tommaso Dreossi and Carla Piazza. <i>Approximated Symbolic Computations over Hybrid Automata</i> 12.00 – 12.25: Marta Capiluppi and Roberto Segala. <i>World Automata: a compositional approach to model implicit communication in hierarchical Hybrid</i>

	Hot-Spot 2 (room E)	<ul style="list-style-type: none"> 11.30 – 12.30: Applications <ul style="list-style-type: none"> Jannik Dreier, Hugo Jonker and Pascal Lafourcade. <i>Verifiability in E-Auction Protocols</i> Masoud Tabatabaei, Wojtek Jamroga and Peter Ryan. <i>Preventing Coercion in E-Voting: Be Open and Commit.</i>
	MBT 2 (room B1)	<ul style="list-style-type: none"> 11.30 – 12.00: Mikhail Chupilko and Alexander Kamkin. <i>Runtime Verification Based on Executable Models: On-the-Fly Matching of Timed Traces</i> 12.00 – 12.30: Olga Grinchtein. <i>Model-Based testing for LTE Radio Base Station</i>
	MEALS 2 (room A2)	<ul style="list-style-type: none"> 11.30 – 12.30 PREMIER PLAT: <ul style="list-style-type: none"> Christel Baier. <i>Quantitative analysis of low-level operating system primitives using probabilistic model checking</i> Andrea Turrini. <i>The Algorithmics of Probabilistic Automata Weak Bisimulation</i>
	SR 6 (room C)	<ul style="list-style-type: none"> 11.30 – 12.30: Krishnendu Chatterjee. <i>Breaking the $O(n^*m)$ Barrier for Büchi Games and Probabilistic Verification</i> (invited talk)
	TUTORIALS (room A1)	Martin Fränzle. <i>Cyber-Physical Systems</i>
12.30 – 14.00	Lunch	
14.00 – 15.30	ACCAT 3 (room B2)	<ul style="list-style-type: none"> 14.00 – 14.30 Dusko Pavlovic. <i>Using Weighted Limits to Mine for Dark Matter in Networks</i> 14.30 – 15.00: Andrzej Tarlecki. <i>Categories, Institutions, Abstract Model Theory, and Software Specification</i> 15.00 – 15.30: Glynn Winskel. <i>Games as Factorization Systems</i>
	BX 3 (room F)	<ul style="list-style-type: none"> 14.00 – 14.25: Martin Hofmann, Benjamin Pierce and Daniel Wagner. <i>Edit languages for information trees</i> 14.25 – 14.50: John Wilson-Kanamori and Soichiro Hidaka. <i>A Bidirectional Collaboration Framework for Bio-Model Development</i> 14.50 – 15.15: Fernando Orejas, Artur Boronat, Hartmut Ehrig, Frank Hermann and Hanna Schoelzel. <i>On Propagation-Based Concurrent Model Synchronization</i> 15.15 – 15.30: Discussion
	DICE 7 (room D)	<ul style="list-style-type: none"> 14.00 – 15.00: Aleksy Shubert. <i>On type inference methods in implicit computational complexity systems</i> 15.00 – 15.30: Nikolay Kosovskiy. <i>Polynomial-Time Program Conditions for Three Programming Languages</i>
	HAS 3 (room G)	<ul style="list-style-type: none"> 14.00 – 14.45: Maria Domenica di Benedetto. <i>Networked Control Systems: from modeling to implementation</i> (invited talk) 14.45 – 15.10: Davide Bresolin. <i>HyLTL, a temporal logic for model checking hybrid systems</i> 15.10 – 15.35: Ezio Bartocci. <i>On Sampling Time in Decentralized Runtime Verification</i>
	Hot-Spot 3 (room E)	<ul style="list-style-type: none"> 14.00 – 15.30: Privacy <ul style="list-style-type: none"> Matteo Maffei, Kim Pecina and Manuel Reinert. <i>Security and Privacy by Declarative Design</i> Konstantinos Chatzikokolakis, Miguel Andres, Nicolás Emilio Bordenabe and Catuscia Palamidessi. <i>Enhancing Differential Privacy: from Hamming to General Metrics</i> Fabienne Eigner and Matteo Maffei. <i>Differential Privacy by Typing in Security Protocols</i>
	MBT 3 (room B1)	<ul style="list-style-type: none"> 14.00 – 14.45: Stephan Weißleder and Hartmut Lackner. <i>Top-Down and Bottom-Up Approach for Model-Based Testing of Product Lines</i> 14.45 – 15.30: Neda Noroozi, Mohammad Reza Mousavi and Tim A.C. Willemse. <i>Decomposability in Input Output Conformance Testing</i>

	MEALS 3 (room A2)	<ul style="list-style-type: none"> 14.00 – 15.30 SECOND PLAT: <ul style="list-style-type: none"> Nir Piterman. <i>The Modal Transition System Control Problem</i> Daniel Sykes. <i>Learning Revised Models For Planning In Adaptive Systems</i> Jan Friso Groote. <i>Axiomatisation of timed branching bisimulation with unbounded choice</i>
	SR 7 (room C)	<ul style="list-style-type: none"> 14.30 – 15.30: Alessio R. Lomuscio. <i>Model Checking Systems against Epistemic Specifications</i> (invited talk)
	TUTORIALS (room A1)	Martin Fränzle. <i>Cyber-Physical Systems</i>
15.30 – 16.00	Tea break	
16.00 – 18.00	ACCAT 4 (room B2)	<ul style="list-style-type: none"> 16.00 – 17.30: Discussion: <i>Future Perspectives on the use of CT for CS</i>
	BX 4 (room F)	<ul style="list-style-type: none"> 16.00 – 18.00: Flexibility session: <i>exact content to be decided on the day</i>
	DICE 8 (room D)	<ul style="list-style-type: none"> 16.00 – 17.00: Business meeting
	HAS 4 (room G)	<ul style="list-style-type: none"> 16.00 – 16.45: Rafael Wisniewski. <i>Combinatorial Abstractions of Dynamical Systems</i> (invited talk) 16.45 – 17.10: Andrea Ocone and Guido Sanguinetti. <i>A hybrid statistical model of a biological filter</i> 17.10 – 17.35: John Leth, Maria Simonsen, Henrik Schioler and Horia Cornean. <i>Initial Studies on Stochastic Differential Equations with Discontinuous Drift</i> 17.35 – 18.00: Davide Chiarugi, Moreno Falaschi, Diana Hermith and Carlos Olarte. <i>A method for hybrid modelling of biological processes with generic waiting times</i> 18.00 – 18.20: Closing
	Hot-Spot 4 (room E)	<ul style="list-style-type: none"> 16.00 – 17.00: Karthik Barghavan. <i>Robust Defenses for Web Security Components</i> (invited talk)
	MBT 4 (room B1)	<ul style="list-style-type: none"> 16.00 – 16.40: Jens Grabowski, Victor Kuli Amin, Alain-Georges Vouffo Feudjio, Antal Wu-Hen-Chang and Milan Zoric. <i>Towards the Usage of MBT at ETSI</i>
	MEALS 4 (room A2)	<ul style="list-style-type: none"> 16:00 DESSERT: <ul style="list-style-type: none"> Axel Legay. <i>PLASMA-lab: a flexible, distributable statistical model checking library</i> Anton Wijs. <i>Using General Purpose Graphics Processors for Probabilistic Model Checking</i> Joost-Pieter Katoen. <i>Probabilistic Programs: New Semantic Insights and Loop Analysis Techniques</i>
	SR 8 (room C)	<ul style="list-style-type: none"> 16.00 – 16.30: Helene Kirchner. <i>A Rewriting Point of View on Strategies</i> 16.30 – 17.00: Benedikt Brütsch. <i>Synthesizing Structured Reactive Programs via Deterministic Tree Automata</i> 17.00 – 17.30: Laura Bozzelli, Bastien Maubert and Sophie Pinchinat. <i>The Complexity of Synthesizing Uniform Strategies</i>
		TUTORIALS (room A1)

Main Conferences: Programme

Monday, March 18th, 2013

9:00 – 10:30 (Aula Magna)	<p><i>Opening</i></p> <p>FoSSaCS invited – Martin Hofmann. <i>Ten years of amortized resource analysis</i></p>	
10:30 – 11:00 (Conf. Venue)	<p>Coffee break</p>	
11:00 – 12:30	<p>FoSSaCS 1 (room A1)</p> <p><i>Models of Computation</i></p> <p>(chair: Martin Hofmann)</p>	<ul style="list-style-type: none"> Jonathan Hayman, Tobias Heindel. <i>Pattern Graphs and Rule-Based Models: the Semantics of Kappa</i> Nikos Tzevelekos, Radu Grigore. <i>History-Register Automata</i> Michael Huth, Jim Huan-Pu Kuo, Nir Piterman. <i>Fatal Attractors in Parity Games</i>
	<p>POST 1 (room A2)</p> <p><i>Privacy</i></p> <p>(chair: Bruno Blanchet)</p>	<ul style="list-style-type: none"> Rémy Chrétien, Stéphanie Delaune. <i>Formal analysis of privacy for routing protocols in mobile ad hoc networks</i> Myrto Arapinis, Veronique Cortier, Steve Kremer, Mark Ryan. <i>Practical everlasting privacy</i> Ehab Elsalamouny, Konstantinos Chatzikokolakis, Catuscia Palamidessi. <i>A differentially private mechanism of optimal utility for a region of priors</i>
	<p>TACAS 1 (room B1)</p> <p><i>Markov Chains</i></p> <p>(chair: Joost-Pieter Katoen)</p>	<ul style="list-style-type: none"> Giorgio Bacci, Giovanni Bacci, Kim G. Larsen, Radu Mardare. <i>On-the-Fly Exact Computation of Bisimilarity Distances</i> (EATCS best paper nomination) Christian Eisentraut, Holger Hermanns, Johann Schuster, Andrea Turrini, Lijun Zhang. <i>The Quest for Minimal Quotients for Probabilistic Automata</i> Michael Benedikt, Rastislav Lenhardt, James Worrell. <i>LTL model checking of Interval Markov Chains</i>
12:30 – 14:00	<p>Lunch</p>	
14:00 – 15:30	<p>FoSSaCS 2 (room A1)</p> <p><i>Reasoning about Processes</i></p> <p>(chair: Peter Mosses)</p>	<ul style="list-style-type: none"> Jannik Dreier, Cristian Ene, Pascal Lafourcade, Yassine Lakhnech. <i>On Unique Decomposition of Processes in the Applied Pi-Calculus</i> Remi Bonnet, Rohit Chadha. <i>Bounded Context-Switching and Reentrant Locking</i> Lorenzo Clemente, Frédéric Herbreteau, Amelie Stainer, Grégoire Sutre. <i>Reachability of Communicating Timed Processes</i>
	<p>POST 2 (room A2)</p> <p><i>Security Protocols I</i></p> <p>(chair: Joshua Guttman)</p>	<ul style="list-style-type: none"> David Cadé, Bruno Blanchet. <i>Proved Generation of Implementations from Computationally-Secure Protocol Specifications</i> Binh Thanh Nguyen, Christoph Sprenger. <i>Sound Security Protocol Transformations</i> Michele Bugliesi, Stefano Calzavara, Fabienne Eigner, Matteo Maffei. <i>Logical Foundations of Secure Resource Management in Protocol Implementations</i> (EASST & EATCS best paper nomination)
	<p>TACAS 2 (room B1)</p> <p><i>Termination and Quantifier Elimination</i></p> <p>(chair: Saddek Bensalem)</p>	<ul style="list-style-type: none"> Byron Cook, Abigail See, Florian Zuleger. <i>Ramsey vs. lexicographic termination proving</i> Kshitij Bansal, Eric Koskinen, Thomas Wies, Damien Zufferey. <i>Structural Counter Abstraction</i> Ajith John, Supratik Chakraborty. <i>Extending Quantifier Elimination to Linear Inequalities on Bit-vectors</i>
15:30 – 16:00	<p>Tea break</p>	
16:00 – 18:00	<p>FoSSaCS 3 (room A1)</p> <p><i>Bisimulation</i></p> <p>(chair: Frank Pfenning)</p>	<ul style="list-style-type: none"> Martin Churchill, Peter Mosses. <i>Modular Bisimulation Theory for Computations and Values</i> Fernando Orejas, Artur Boronat, Ulrike Golas, Nikos Mylonakis. <i>Checking Bisimilarity of Attributed Graphs</i> Faris Abou-Saleh, Dirk Pattinson. <i>Comodels and Effects in Mathematical Operational Semantics</i> (EATCS best paper nomination) Shin-Ya Katsumata, Tetsuya Sato. <i>Preorders on Monads and Coalgebraic Simulations</i> (EATCS best paper nomination)

	POST 3 (room A2) <i>Topics in Foundations of Security</i> (chair: John Mitchell)	<ul style="list-style-type: none"> • Chetan Bansal, Karthikeyan Bhargavan, Antoine Delignat-Lavaud, Sergio Maffei. <i>Keys to the Cloud: Formal Analysis and Concrete Attacks on Encrypted Web Storage</i> • Sebastian A. Mödersheim, Flemming Nielson, Hanne Riis Nielson. <i>Lazy Mobile Intruders</i> • Martin Abadi, Jérémy Planul. <i>On Layout Randomization for Arrays and Functions</i> • Massimo Bartoletti, Tiziana Cimoli, Roberto Zunino. <i>A theory of agreements and protection</i>
	TACAS 3 (room B1) <i>SAT/SMT</i> (chair: Orna Grumberg)	<ul style="list-style-type: none"> • Alessandro Cimatti, Alberto Griggio, Bastiaan Joost Schaafsma, Roberto Sebastiani. <i>The MathSAT5 SMT Solver (Regular Tool Paper)</i> • Anton Belov, Matti Järvisalo, Joao Marques-Silva. <i>Formula Preprocessing in MUS Extraction</i> • Juergen Christ, Jochen Hoenicke, Alexander Nutz. <i>Proof Tree Preserving Interpolation</i> • Siert Wieringa, Keijo Heljanko. <i>Asynchronous Multi-Core Incremental SAT Solving</i>

Tuesday, March 19th, 2013

9:00 – 10:10 (Aula Magna)	POST invited – Jean-Pierre Hubaux: <i>From Location Privacy to Genomic Privacy</i> <i>Best student papers ceremony</i>	
10:10 – 10:30 (Conf. venue)	Coffee break	
10:30 – 12:30	FoSSaCS 4 (room A1) <i>Modal and Higher-Order Logics</i> (chair: Catuscia Palamidessi)	<ul style="list-style-type: none"> • Matteo Mio, Alex Simpson. <i>A Proof System for Compositional Verification of Probabilistic Concurrent Processes</i> • Lukasz Czajka. <i>Partiality and Recursion in Higher-Order Logic</i> • Fredrik Dahlqvist, Dirk Pattinson: <i>Some Sahlqvist Completeness Results for Coalgebraic Modal Logics (EATCS best paper nomination)</i> • Lutz Strassburger. <i>Cut Elimination in Nested Sequent Systems for Intuitionistic Modal Logics</i>
	POST 4 (room A2) <i>Security Protocols II</i> (chair: Sebastian Modersheim)	<ul style="list-style-type: none"> • Michael Backes, Fabian Bendun, Dominique Unruh. <i>Computational Soundness of Symbolic Zero-knowledge Proofs: Weaker Assumptions and Mechanized Verification</i> • Vincent Cheval, Bruno Blanchet. <i>Proving More Observational Equivalences with ProVerif</i> • Jannik Dreier, Pascal Lafourcade, Yassine Lakhnech. <i>Formal Verification of e-Auction protocols</i> • Marco Carbone, Joshua Guttman. <i>Sessions and Separability in Security Protocols</i>
	TACAS 4 (room B1) <i>Games & Synthesis, and Process Algebra</i> (chair: Barbara König)	<ul style="list-style-type: none"> • Chung-Hao Huang, Sven Schewe, Farn Wang. <i>Model-Checking Iterative Games</i> • Aaron Bohy, Véronique Bruyère, Emmanuel Filiot, Jean-François Raskin. <i>Synthesis from LTL Specifications with Mean-Payoff Objectives</i> • Taolue Chen, Vojtech Forejt, Marta Kwiatkowska, David Parker, Aistis Simaitis. <i>PRISM-games: A Model Checker for Stochastic Multi-Player Games (Tool Demo)</i> • Radu Mateescu, Gwen Salaün. <i>PIC2LNT: Model Transformation for Model Checking an Applied Pi-calculus (Tool Demo)</i> • Sjoerd Cranen, Jan Friso Groote, Jeroen Keiren, Frank Stappers, Erik de Vink, Wieger Wesselink, Tim Willems. <i>An Overview of the mCRL2 Toolset and its Recent Advances (Regular Tool Paper)</i>
12:30 – 14:00	Lunch	
14:00 – 15:30	ESOP 1 (room B2) <i>Programming Techniques</i> (chair: Matthias Felleisen)	<ul style="list-style-type: none"> • Mihai Budiu, Joel Galenson, Gordon D. Plotkin. <i>The Compiler Forest</i> • Arthur Charguéraud: <i>Pretty-Big-Step Semantics</i> • Jean-Baptiste Jeannin, Dexter Kozen, Alexandra Silva. <i>Language Constructs for Non-Well-Founded Computation</i>

	FoSSaCS 5 (room A1) <i>Reasoning about Programs</i> (chair: Glynn Winskel)	<ul style="list-style-type: none"> • Andrej Bauer, Aleksandr Karbyshev, Martin Hofmann. <i>On Monadic Parametricity of Second-Order Functionals</i> • Andrzej Murawski, Nikos Tzevelekos. <i>Deconstructing General References via Game Semantics</i> • Robbert Krebbers and Freek Wiedijk. <i>Separation Logic for Non-local Control Flow and Block Scope Variables</i> (EASST best paper nomination)
	TACAS 5 (room B1) <i>Pushdown</i> (chair: Axel Legay)	<ul style="list-style-type: none"> • Patrice Godefroid, Mihalis Yannakakis. <i>Analysis of Boolean Programs</i> • Yasuhiko Minamide. <i>Weighted Pushdown Systems with Indexed Weight Domains</i> • Pierre Ganty, Radu Iosif, Filip Konečný. <i>Underapproximation of Procedure Summaries for Integer Programs</i>
15:30 – 16:00	Tea break	
16:00 – 18:00	ESOP 2 (room B2) <i>Programming Tools</i> (chair: Matthias Felleisen)	<ul style="list-style-type: none"> • Stephen Chang. <i>Laziness by Need</i> • Kazutaka Matsuda, Meng Wang. <i>FliPpr: A Prettier Invertible Printing System</i> • Maria Alpuente, Demis Ballis, Francisco Frechina, Julia Sapiña. <i>Slicing-based Trace Analysis of Rewriting Logic Specifications with iJulienne</i> • Jean-Christophe Filliâtre, Andrei Paskevich. <i>Why3 – Where Programs Meet Provers</i>
	FoSSaCS 6 (room A1) <i>Computational Complexity</i> (chair: Ugo Dal Lago)	<ul style="list-style-type: none"> • Prateek Karandikar, Sylvain Schmitz. <i>The Parametric Ordinal-Recursive Complexity of Post Embedding Problems</i> • Wojciech Czerwinski, Claire David, Katja Losemann, Wim Martens. <i>Deciding Definability by Deterministic Regular Expressions</i> • Emmanuel Hainry, Jean-Yves Marion, Romain Péchoux. <i>Type-Based Complexity Analysis for Concurrent Programs</i> • Martin Hofmann, Ramyaa Ramyaa, Ulrich Schöpp. <i>Pure Pointer Programs and Tree Isomorphism</i>
	TACAS 6 (room B1) <i>Runtime Verification and Model Checking</i> (chair: Natasha Sharygina)	<ul style="list-style-type: none"> • Dino Distefano, Radu Grigore, Rasmus Lerchedahl Petersen, Nikos Tzevelekos. <i>Runtime Verification Based on Register Automata</i> • Graeme Gange, Jorge A. Navas, Peter J. Stuckey, Harald Sondergaard, Peter Schachte. <i>Unbounded Model-Checking with Interpolation for Regular Language Constraints</i> • Grigory Fedyukovich, Ondrej Sery, Natasha Sharygina. <i>eVoCheck: Incremental Upgrade Checker for C (Regular Tool Paper)</i> • Yakir Vizel, Orna Grumberg, Sharon Shoham. <i>Intertwined Forward-Backward Reachability Analysis Using Interpolants</i>

Wednesday, March 20th, 2013

9:00 – 10:10 (Aula Magna)	Unified talk – Gilles Barthe: <i>Computer-aided Cryptographic Proofs</i> <i>Best EATCS/EAPLS/EASST papers ceremony</i>	
10:10 – 10:30 (Conf. venue)	Coffee break	
10:30 – 12:30	ESOP 3 (room B2) <i>Separation Logic</i> (chair: Philippa Gardner)	<ul style="list-style-type: none"> • Constantin Enea, Vlad Saveluc, Mihaela Sighireanu. <i>Compositional Invariant Checking for Overlaid and Nested Linked Lists</i> • Ioannis T. Kassios, Eleftherios Kritikos. <i>A Discipline for Program Verification based on Backpointers and its Use in Observational Disjointness</i> • Kasper Svendsen, Lars Birkedal, Matthew Parkinson. <i>Modular Reasoning about Separation of Concurrent Data Structures</i> • John Wickerson, Mike Dodds, Matthew Parkinson. <i>Ribbon Proofs for Separation Logic</i>
	FASE 1 (room A2) <i>Model-Driven Engineering : concepts</i> (chair: Claudia Ermel)	<ul style="list-style-type: none"> • Daniel Strüber, Gabriele Taentzer, Stefan Jurack, Tim Schäfer. <i>Towards a Distributed Modeling Process Based on Composite Models</i> • Rick Salay, Jan Gorzny, Marsha Chechik. <i>Change Propagation Due to Uncertainty Change</i> • Marco Autili, Davide Di Ruscio, Amleto Di Salle, Paola Inverardi, Massimo Tivoli. <i>A model-based synthesis process for choreography realizability enforcement</i> • Evelyn Nicole Haslinger, Roberto Erick Lopez-Herrejon, Alexander Egyed. <i>On Extracting Feature Models from Sets of Valid Feature Combinations</i>

	FoSSaCS 7 (room A1) <i>Quantitative Models</i> (chair: Radha Jagadeesan)	<ul style="list-style-type: none"> • Pietro Di Gianantonio, Abbas Edalat. <i>A Language for Differentiable Functions</i> (EAPLS best paper nomination) • Michael Ummels, Christel Baier. <i>Computing Quantiles in Markov Reward Models</i> • Guy Avni, Orna Kupferman. <i>Parameterized Weighted Containment</i> • Benedikt Bollig, Paul Gastin, Benjamin Monmege. <i>Weighted Specifications over Nested Words</i>
	TACAS 7 (room B1) <i>Concurrency and Learning & Abduction</i> (chair: Corina Pasareanu)	<ul style="list-style-type: none"> • Boyang Li, Isil Dilligi, Thomas Dilligi, Ken Mcmillan, Mooly Sagiv. <i>Synthesis of Circular Compositional Program Proofs via Abduction</i> • Alexander Linden, Pierre Wolper. <i>A Verification-Based Approach to Memory Fence Insertion in PSO Memory Systems</i> • David White, Gerald Lüttgen. <i>Identifying Dynamic Data Structures by Learning Evolving Patterns in Memory</i> • Parosh Aziz Abdulla, Frédéric Haziza, Lukáš Holík, Bengt Jonsson, Ahmed Rezine. <i>An Integrated Specification and Verification Technique for Highly Concurrent Data Structures</i> (EASST best paper nomination)
12:30 – 14:00	Lunch	
14:00 – 15:00 (Aula Magna)	Unified talk – Cedric Fournet: <i>An Implementation of TLS 1.2 with Verified Cryptographic Security</i>	
15:15 – 16:15 (Conf. venue)	ESOP 4 (room B2) <i>Gradual Typing</i> (chair: Holger Hermanns)	<ul style="list-style-type: none"> • Niki Vazou, Patrick M. Rondon, Ranjit Jhala. <i>Abstract Refinement Types</i> • Asumu Takikawa, T. Stephen Strickland, Sam Tobin-Hochstadt. <i>Constraining Delimited Control with Contracts</i>
	FASE 2 (room A2) <i>Verification and Validation 1</i> (chair: Marco Bernardo)	<ul style="list-style-type: none"> • Dirk Beyer, Stefan Löwe. <i>Explicit-State Software Model Checking Based on CEGAR and Interpolation</i> • Julia Rubin, Marsha Chechik. <i>Quality of Merge-Refactorings for Product Lines</i>
	TACAS 8 (room B1) <i>Timed automata</i> (chair: Kim Larsen)	<ul style="list-style-type: none"> • Jean-François Kempf, Marius Bozga, Oded Maler. <i>As Soon as Probable: Optimal Scheduling under Stochastic Uncertainty</i> • Aleksandra Jovanović, Didier Lime, Olivier H. Roux. <i>Integer Parameter Synthesis for Timed Automata</i>
16:15 – 16:30	Tea break	
16:30 – 18:00	ESOP 5 (room B2) <i>Shared-memory Concurrency and Verification</i> (chair: Martin Hofmann)	<ul style="list-style-type: none"> • Alexey Gotsman, Noam Rinetzky, Hongseok Yang. <i>Verifying Concurrent Memory Reclamation Algorithms with Grace</i> (EASST & EATCS best paper nomination) • Peter Collingbourne, Alastair F. Donaldson, Jeroen Ketema, Shaz Qadeer. <i>Interleaving and Lock-Step Semantics for Analysis and Verification of GPU Kernels</i> (EASST & EATCS best paper nomination) • Ahmed Bouajjani, Michael Emmi, Constantin Enea, Jad Hamza. <i>Verifying Concurrent Programs against Sequential Specifications</i>
	FASE 3 (room A2) <i>Software comprehension</i> (chair: Vittorio Cortellessa)	<ul style="list-style-type: none"> • Arbi Bouchoucha, Houari Sahraoui, Pierre L'Ecuyer. <i>Towards Understanding the Behavior of Classes Using Probabilistic Models of Program Inputs</i> (EASST best paper nomination) • Massimiliano De Leoni, Marlon Dumas, Luciano García-Bañuelos. <i>Discovering Branching Conditions from Business Process Execution Logs</i> • Hao Zhong, Suresh Thummalapenta, Tao Xie. <i>Exposing Behavioral Differences in Cross-Language API Mapping Relations</i>
	FoSSaCS 8 (room A1) <i>Categorical Models</i> (chair: Andrzej Murawski)	<ul style="list-style-type: none"> • Sam Staton. <i>An Algebraic Presentation of Predicate Logic</i> • Glynn Winskel. <i>Strategies as Profunctors</i> • Ranald Clouston. <i>Generalised Name Abstraction for Nominal Sets</i>
	TACAS 9 (room B1) <i>Security and Access Control</i> (chair: Catuscia Palamidessi)	<ul style="list-style-type: none"> • Fu Song, Tayssir Touili. <i>LTL Model-Checking for Malware Detection</i> • Anna Lisa Ferrara, P. Madhusudan, Gennaro Parlato. <i>Policy Analysis for Self-Administrated Role-Based Access Control</i> • Masoud Koleini, Eike Ritter, Mark Ryan. <i>Model checking agent knowledge in dynamic access control policies</i>

Thursday, March 21st, 2013

9:00 – 10:00 (Aula Magna)	FASE invited – Krzysztof Czarnecki: <i>Variability in Software: State of the Art and Future Directions</i>	
10:00 – 10:30 (Conf. venue)	Coffee break	
10:30 – 12:30	ESOP 6 (room B2) <i>Process calculi</i> (chair: Yannis Smaragdakis)	<ul style="list-style-type: none"> • Kirstin Peters, Uwe Nestmann, Ursula Goltz. <i>On Distributability in Process Calculi</i> • Luis Caires, Jorge A. Pérez, Frank Pfenning, Bernardo Toninho. <i>Behavioral Polymorphism and Parametricity in Session-Based Communication</i> • Bernardo Toninho, Luis Caires, Frank Pfenning. <i>Higher-Order Processes, Functions, and Sessions: A Monadic Integration</i> • Ivan Lanese, Michael Lienhardt, Claudio Antares Mezzina, Alan Schmitt, Jean-Bernard Stefani. <i>Concurrent Flexible Reversibility</i>
	FASE 4 (room A2) <i>Verification and Validation 2</i> (chair: Perdita Stevens)	<ul style="list-style-type: none"> • Birgit Hofer, André Riboira, Franz Wotawa, Rui Abreu, Elisabeth Getzner. <i>On the Empirical Evaluation of Fault Localization Techniques for Spreadsheets</i> • John Lasseter, John Cipriano. <i>Design Pattern-Based Extension of Class Hierarchies to Support Runtime Invariant Checks</i> • Lan Lin, Jesse H. Poore, Robert Eschbach, Rob M. Hierons, Christopher Robinson-Mallett. <i>Augmenting Sequence Enumeration with String-Rewriting for Requirements Analysis and Behavioral Specification</i> • Rouwaida Abdallah, Arnaud Gotlieb, Loic Helouet and Claude Jard. <i>Scenario realizability with constraint optimization</i>
	TACAS (room A1) <i>Competition on Software Verification</i> (chair: Dirk Beyer)	<ul style="list-style-type: none"> • Dirk Beyer. Competition Report • Pavel Shved, Mikhail Mandrykin, Vadim Mutilin. <i>Predicate Analysis with BLAST 2.7.1</i> • Stefan Löwe. <i>CPAchecker with Explicit-Value Analysis Based on CEGAR and Interpolation</i> • Philipp Wendler. <i>CPAchecker with Sequential Combination of Explicit-State Analysis and Predicate Analysis</i> • Bernd Fischer, Omar Inverso, Gennaro Parlato. <i>CSeq: A Sequentialization Tool for C</i> • Jeremy Morse, Lucas Cordeiro, Denis Nicole, Bernd Fischer. <i>Handling Unbounded Loops with ESBMC 1.20</i> • Stephan Falke, Florian Merz, Carsten Sinz. <i>LLBMC: Improved Bounded Model Checking of C Programs Using LLVM</i> • Kamil Dudka, Petr Müller, Petr Peringer, Tomáš Vojnar. <i>Predator: A Tool for Verification of Low-level List Manipulation</i> • Jiri Slaby, Jan Strejček, Marek Trtik. <i>Symbiotic: Synergy of Instrumentation, Slicing, and Symbolic Execution</i> • Corneliu Popeea, Andrey Rybalchenko. <i>Threader: A Verifier for Multi-threaded Programs</i> • Arie Gurfinkel, Aws Albarghouthi, Sagar Chaki, Yi Li, Marsha Chechik. <i>UFO: Verification with Interpolants and Abstract Interpretation</i> • Matthias Heizmann, Juergen Christ, Daniel Dietsch, Evren Ermis, Jochen Hoenicke, Markus Lindenmann, Alexander Nutz, Christian Schilling, Andreas Podelski. <i>Ultimate Automizer with SMTInterpol</i>
	TACAS 10 (room B1) <i>Frontiers (Quantum & Graphics) and Functional Programs & Types</i> (chair: Nir Piterman)	<ul style="list-style-type: none"> • Robert Nagy, Gerardo Schneider, Aram Timofeitchik. <i>Automatic Testing of Real-Time Graphics Systems (Case Study Paper)</i> • Ebrahim Ardeshir-Larijani, Simon Gay, Rajagopal Nagarajan. <i>Equivalence Checking of Quantum Protocols</i> • Jasmin Christian Blanchette, Sascha Böhme, Andrei Popescu, Nicholas Smallbone. <i>Encoding Monomorphic and Polymorphic Types</i> • Sooraj Bhat, Johannes Borgström, Andy Gordon, Claudio Russo. <i>Deriving Probability Density Functions from Probabilistic Functional Programs (EAPLS best paper nomination)</i>
12:30 – 14:00	Lunch <i>Tool demos (room A1) - go here with your plate</i>	

14:00 – 15:00 (Aula Magna)	TACAS invited – Orna Grumberg. <i>SAT-Based Model Checking: Interpolation, IC3 and Beyond</i>	
15:15 – 16:15 (Conf. venue)	CC 1 (room A1) <i>Register allocation</i> (chair: TBA)	<ul style="list-style-type: none"> Philipp Klaus Krause. <i>Optimal Register Allocation in Polynomial Time</i> Gergö Barany, Andreas Krall. <i>Optimal and Heuristic Global Code Motion for Minimal Spilling</i>
	ESOP 7 (room B2) <i>Taming Concurrency</i> (chair: Didier Remy)	<ul style="list-style-type: none"> Yi Lu, John Potter, Jingling Xue. <i>Structural Lock Correlation with Ownership Types</i> Joost-Peter Katoen, Doron Peled. <i>Taming Confusion for Modeling and Implementing Probabilistic Concurrent Systems</i>
	FASE 5 (room A2) <i>Analysis Tools</i> (chair: Tiziana Margaria)	<ul style="list-style-type: none"> Omer Tripp, Marco Pistoia, Patrick Cousot, Radhia Cousot, Salvatore Guarnieri. <i>Andromeda: Accurate and Scalable Security Analysis of Web Applications</i> Matthias Gdemann, Pascal Poizat, Gwen Salan, Alexandre Dumont. <i>VerChor: A Framework for Verifying Choreographies (Tool Paper)</i> Martin Nordio, Cristiano Calcagno, Carlo Alberto Furia. <i>Javanni: A Verifier for JavaScript (Tool Paper)</i>
	TACAS 11 (room B1) <i>Tool demos</i> (chair: Laurie Hendren)	<ul style="list-style-type: none"> Corina Pasareanu, Daniel Balasubramanian, Gabor Karsai, Michael Lowry. <i>Polyglot: Systematic Analysis for Multiple Statechart Formalisms (Tool Demo)</i> Parosh Aziz Abdulla, Mohamed Faouzi Atig, Yu-Fang Chen, Carl Leonardsson, Ahmed Rezine. <i>Memorax: Fence Inference under the TSO Memory Model (Tool Demo)</i> Yu-Fang Chen, Bow-Yaw Wang. <i>BULL: a Library for Learning Algorithms of Boolean Functions (Tool Demo)</i> Michael Backes, Sebastian Gerling, Christian Hammer, Matteo Maffei, Philipp von Styp-Rekowsky. <i>AppGuard - Enforcing User Requirements on Android Apps (Tool Demo)</i>
16:15 – 16:30	Tea break	
16:30 – 18:00	CC 2 (room A1) <i>Pointer analysis</i> (chair: TBA)	<ul style="list-style-type: none"> George Kastrinis, Yannis Smaragdakis. <i>Efficient and Effective Handling of Exceptions in Java Points-To Analysis</i> Yi Lu, Lei Shang, Xinwei Xie, Jingling Xue. <i>An Incremental Points-to Analysis with CFL-Reachability</i> Holger Siegel, Axel Simon. <i>FESA: Fold- and Expand-based Shape Analysis</i>
	ESOP 8 (room B2) <i>Model Checking and Verification</i> (chair: Ranjit Jhala)	<ul style="list-style-type: none"> Naoki Kobayashi, Atsushi Igarashi. <i>Model-Checking Higher-Order Programs with Recursive Types</i> Mohamed Nassim Seghir, Daniel Kroening. <i>Counterexample-guided Precondition Inference</i> Dirk Beyer, Andreas Holzer, Michael Tautschnig, Helmut Veith. <i>Information Reuse for Multi-goal Reachability Analyses</i>
	FASE 6 (room A2) <i>Model-Driven Engineering: applications</i> (chair: Gabi Taentzer)	<ul style="list-style-type: none"> Ahlem Triki, Jacques Combaz, Saddek Bensalem, Joseph Sifakis. <i>Model-Based Implementation of Parallel Real-Time Systems</i> Wei Yang, Mukul Prasad, Tao Xie. <i>A Grey-box Approach for Automated GUI-Model Generation of Mobile Applications</i> Francesco Bongiovanni, Ludovic Henrio. <i>A Mechanized Model for CAN Protocols</i>
	TACAS 12 (room B1) <i>Explicit State Model Checking and Bchi Automata</i> (chair: Andrey Rybalchenko)	<ul style="list-style-type: none"> Milos Gligoric, Rupak Majumdar. <i>Model Checking Database Applications</i> Anton Wijs, Luc Engelen. <i>Efficient Property Preservation Checking of Model Refinements</i> Etienne Renault, Alexandre Duret-Lutz, Fabrice Kordon, Denis Poitrenaud. <i>Strength-based decomposition of the property Bchi automaton for faster model checking</i>

Friday, March 22nd, 2013

9:00 – 10:30 (Aula Magna)	CC invited – Emery Berger. <i>Programming with People: Integrating Human-Based and Digital Computation</i> <i>Böhm Fest</i>	
10:30 – 11:00 (Conf. venue)	Coffee break	
11:00 – 12:30	CC 3 (room A1) <i>Data and information flow</i> (chair: TBA)	<ul style="list-style-type: none"> Matthias Braun, Sebastian Buchwald, Sebastian Hack, Roland Leiða, Christoph Mallon, Andreas Zwinkau. <i>Simple and Efficient Construction of Static Single Assignment Form</i> Somashekaracharya G Bhaskaracharya, Uday Bondhugula. <i>PolyGLoT: A Polyhedral Loop Transformation Framework for a Graphical Dataflow Language</i> Ryan Whelan, Tim Leek, David Kaeli. <i>Architecture-Independent Dynamic Information Flow Tracking</i>
	ESOP 9 (room B2) <i>Weak-memory Concurrency and Verification</i> (chair: Scott Owens)	<ul style="list-style-type: none"> Radha Jagadeesan, Gustavo Petri, Corin Pitcher, James Riely. <i>Quarantining Weakness</i> (EASST & EATCS best paper nomination) Jade Alglave, Daniel Kroening, Vincent Nimal, Michael Tautschnig. <i>Software Verification for Weak Memory via Program Transformation</i> Ahmed Bouajjani, Egor Derevenetc, Roland Meyer. <i>Checking and Enforcing Robustness against TSO</i>
	FASE 7 (room A2) <i>Model Transformations</i> (chair: Fernando Orejas)	<ul style="list-style-type: none"> Julian Bradfield, Perdita Stevens. <i>Enforcing QVT-R with mu-calculus and games</i> Nuno Macedo, Alcino Cunha. <i>Implementing QVT-R Bidirectional Model Transformations using Alloy</i> (EASST best paper nomination) Mayur Bapodra, Reiko Heckel. <i>Abstraction and Training of Stochastic Graph Transformation Systems</i>
12:30 – 14:00	Lunch	
14:00 – 16:00 (Aula Magna)	ESOP invited – Mark S. Miller. <i>Distributed Electronic Rights in JavaScript</i> <i>Tribute to Kohei Honda</i>	
15:15 – 16:15 (Conf. venue)	CC 4 (room A1) <i>Machine learning</i> (chair: TBA)	<ul style="list-style-type: none"> Rosario Cammarota. <i>Determination of inlining vectors for program optimization</i> Ryan Moore, Bruce Childers. <i>Automatic Generation of Program Affinity Policies Using Machine Learning</i>
16:15 – 16:30 (Conf. venue)	Tea break	
16:30 – 18:00	CC 5 (room A1) <i>Refactoring</i> (chair: TBA)	<ul style="list-style-type: none"> Stefan Kempf, Ronald Veldema, Michael Philippsen. <i>Compiler-Guided Identification of Critical Sections in Parallel Code</i> Soroush Radpour, Laurie Hendren, Max Schaefer. <i>Refactoring MATLAB</i> Eberhard Bertsch, Mark-Jan Nederhof, Sylvain Schmitz. <i>On LR Parsing with Selective Delays</i>
	ESOP 10 (room B2) <i>Types, Inference and Analysis</i> (chair: Annie Liu)	<ul style="list-style-type: none"> Gabriel Scherer, Didier Rémy. <i>GADTs meet subtyping</i> Rahul Sharma, Saurabh Gupta, Bharath Hariharan, Alex Aiken, Percy Liang, Aditya V. Nori. <i>A Data Driven Approach for Algebraic Loop Invariants</i> Martin Hofmann, Dulma Rodriguez. <i>Automatic Type Inference for Amortised Heap-Space Analysis</i>
	FASE 8 (room A2) <i>Testing</i> (chair: Reiko Heckel)	<ul style="list-style-type: none"> Anirudh Santhiar, Omesh Pandita, Aditya Kanade. <i>Discovering Math APIs by Mining Unit Tests</i> Kazunori Sakamoto, Tomohiro Kaizu, Daigo Hamura, Hironori Washizaki, Yoshiaki Fukazawa. <i>POGen: A Test Code Generator Based on Template Variable Coverage in Gray-Box Integration Testing for Web Applications</i> Ana Cavalcanti, Robert Hierons. <i>Testing with inputs and outputs in CSP</i>

Post-Conference Satellite Workshops: Programme

Saturday, March 23, 2013

9:00 – 11:00	Bytecode 1 (room G)	<ul style="list-style-type: none"> 9:30 – 10:30: Wolfgang Ahrendt. <i>TBA</i> (invited talk) 10:30 – 11:00: SYMBOLIC EXECUTION José Miguel Rojas and Corina Pasareanu. <i>Compositional Symbolic Execution through Program Specialization</i>
	GT-VMT 1 TERMGRAPH 1 (room A2)	<ul style="list-style-type: none"> 9:00 – 10:00: Andrea Corradini. <i>On the Concurrent Semantics of Transformation Systems with Negative Application Conditions</i> (invited talk) 10:00 – 10:30: H.J. Sander Bruggink, Sebastian Küpper, and Barbara König. <i>Concatenation and other Closure Properties of Recognizable Languages in Adhesive Categories</i> (GT-VMT paper) 10:30 – 11:00: Guillaume Bonfante and Bruno Guillaume. <i>Non-simplifying Graph Rewriting Termination</i> (TERMGRAPH paper)
	CerCo 1 (room E)	<ul style="list-style-type: none"> 9:00 – 9:30: Claudio Sacerdoti Coen. <i>Certified complexity</i> 9:30 – 10:30: Alessandra Di Pierro. <i>Probabilistic static analysis and security trade-offs</i> (Joint invited talk with QAPL – room A1) 10:30 – 11:00: Yann Régis-Gianas. <i>Certifying and reasoning on cost annotations of imperative programs</i>
	FESCA 1 (room F)	<ul style="list-style-type: none"> 09:00 – 09:30: Registration 09:30 – 09:45: Workshop opening 09:45 – 11:00: Vittorio Cortellessa. <i>Tradeoff analysis of software quality attributes through optimization models</i> (invited talk)
	PLACES 1 (room C)	<ul style="list-style-type: none"> 9:00 – 9:30: Luca Padovani. <i>From Lock Freedom to Progress Using Session Types</i> 9:30 – 10:00: Cinzia Di Giusto and Jorge A. Pérez. <i>Session Types for Dynamically Evolvable Communicating Systems</i> 10:00 – 10:30: Yoichi Hirai. <i>Session Types in Abelian Logic</i> 10:30 – 11:00: Romain Demangeon and Laura Bocchi. <i>Embedding Session Types in HML</i>
	QAPL 1 (room A1)	<ul style="list-style-type: none"> 9:00 – 9:30: Registration and opening Session 9:30 – 10:30: Alessandra Di Pierro. <i>Probabilistic static analysis and security trade-offs</i> (Joint invited talk with CerCo) <p>SECURITY</p> <ul style="list-style-type: none"> 10:30 – 11:00: Ivan Gazeau, Dale Miller and Catuscia Palamidessi. <i>Preserving differential privacy under finite-precision semantics</i>
11.00 – 11.30	Coffee break	
11.30 – 12.30	Bytecode 2 (room G)	<p>JAVA BYTECODE</p> <ul style="list-style-type: none"> 11:30 – 12:00: Aibek Sarimbekov, Yudi Zheng, Danilo Ansaloni, Lubomir Bulej, Lukas Marek, Walter Binder, Petr Tuma and Zhengwei Qi. <i>Java Bytecode Instrumentation – Reconciling Developer Productivity</i> 12:00 – 12:30: Andrey Breslav, Evgeny Geraschenko, Svetlana Isakova and Alexey Sedunov. <i>KAnnotator: Inferring precise type information from Java byte codes</i>
	GT-VMT 2 (room D)	<ul style="list-style-type: none"> 11:30 – 12:00: Ralf Teusner, Gregor Gabrysiak, Stefan Richter, and Stefan Kleff. <i>Interactive Strategy-Based Validation of Behavioral Models</i> 12:00 – 12:30: Olga Runge, Tamim Ahmed Khan and Reiko Heckel. <i>Test Case Generation Using Visual Contracts</i>
	TERMGRAPH 2 (room A2)	<ul style="list-style-type: none"> 11:30 – 12:00: Patrick Bahr. <i>Convergence in Infinitary Term Graph Rewriting Systems is Simple</i> 12:00 – 12:30: Manfred Schmidt-Schauss. <i>Linear Compressed Pattern Matching for Polynomial Rewriting</i>
	CerCo 2 (room E)	<ul style="list-style-type: none"> 11:30 – 12:00: Paolo Tranquilli. <i>Cost prediction for loop optimizations</i> (joint talk with QAPL – room A1) 12:00 – 12:30: Björn Lisper. <i>Parametric WCET Analysis</i>

	FESCA 2 (room F)	<ul style="list-style-type: none"> • 11:30 – 11:50: Davide Arcelli and Vittorio Cortellessa. <i>Software model refactoring based on performance analysis: better working on software or performance side?</i> • 11:50 – 12:10: Jeffrey Terrell, Maribel Fernandez and Iman Poernomo. <i>Assembling the Proofs of Ordered Model Transformations</i> • 12:10 – 12:30: Sven Sieverding, Christian Ellen and Peter Battram. <i>Sequence Diagram Test Case Specification and Virtual Integration Analysis using Timed-Arc Petri nets</i>
	PLACES 2 (room C)	<ul style="list-style-type: none"> • 11:30 – 12:00: Tarmo Uustalu. <i>Coinductive big-step semantics for concurrency</i> • 12:00 – 12:30: Ashkan Tousimojarad. <i>A Parallel Task Composition Approach to Manycore Programming</i>
	QAPL 2 (room A1)	PROGRAM ANALYSIS <ul style="list-style-type: none"> • 11:30 – 12:00: Paolo Tranquilli. <i>Indexed Labels for Loop Iteration Dependent Costs</i> (joint talk with CerCo) • 12:00 – 12:30: Tri Minh Ngo and Marieke Huisman. <i>Quantitative Security Analysis for Multi-threaded</i>
12.30 – 14.00	Lunch	
14.00 – 15.30	Bytecode 3 (room G)	<ul style="list-style-type: none"> • 14:00 – 15:00: Etienne Payet. <i>Modeling the Android platform</i> (invited talk) VERIFICATION <ul style="list-style-type: none"> • 15:00 – 15:30: Marieke Huisman and Matej Mihelčič. <i>Specification and Verification of GPGPU programs using Permission-based Separation logic</i>
	GT-VMT 3 (room D)	<ul style="list-style-type: none"> • 14:00 – 14:30: Florian Mantz, Gabriele Taentzer and Yngve Lamo. <i>Well-formed Model Co-evolution with Customizable Model Migration</i> • 14:30 – 15:00: Abdullah Alshanjiti, Reiko Heckel and Tamim Khan. <i>Learning Graph Transformation Rules from Positive and Negative Examples</i> • 15:00 – 15:30: Maria Maximova, Hartmut Ehrig and Claudia Ermel. <i>Analysis of Hypergraph Transformation Systems in AGG based on M-Functors</i>
	TERMGRAPH 3 (room A2)	<ul style="list-style-type: none"> • 14:00 – 15:00: Traian Florin Serbanuta. <i>Programming Language Semantics using - true concurrency through term graph rewriting</i> (invited talk) • 15:00 – 15:30: Beniamino Accattoli. <i>Evaluating functions as processes</i>
	CerCo 3 (room E)	<ul style="list-style-type: none"> • 14:00 – 14:30: Yann Régis-Gianas. <i>Applications of the labelling approach to functional and synchronous languages</i> • 14:30 – 14:45: Björn Lisper. <i>The COST Action TACLe (Timing Analysis on Code-Level)</i> • 14:45 – 15:30: Tullio Vardanega. <i>Probabilistic Time Analysis (PROARTIS)</i>
	FESCA 3 (room F)	<ul style="list-style-type: none"> • 14:00 – 14:20: Christian Colombo, Adrian Francalanza, Ruth Mizzi and Gordon Pace. <i>Extensible Technology Agnostic Runtime Verification</i> • 14:20 – 14:40: Helena Gruhn and Sabine Glesner. <i>Towards a Formal Framework for Mobile, Service-Oriented Sensor-Actuator Networks</i> • 14:40 – 15:00: Jan Olaf Blech. <i>Towards a Framework for Behavioral Specifications of OSGi Components</i> • 15:00-15:30 Pannel Session
	PLACES 3 (room C)	<ul style="list-style-type: none"> • 14:00 – 15:00: Stefan Möhl. <i>Parallelism turned the other way around - From Hardware to Software</i> (invited talk) • 15:00 – 15:30: Romyana. <i>Session Types Go Dynamic or How to Verify Your Python Conversations</i>
	QAPL 3 (room A1)	<ul style="list-style-type: none"> • 14:00 – 14:30: Mark Timmer, Jaco Van De Pol and Marielle I A Stoelinga (short paper). <i>Confluence Reduction for Markov Automata</i> • 14:30 – 15:00: Christian Krause, Erik de Vink and Pim de Vink (short paper). <i>Towards Dynamic Adaptation of the Majority Rule Scheme</i> • 15:00 – 15:30: Arnd Hartmanns and Mark Timmer (short paper). <i>On-the-fly Confluence Detection for Statistical Model Checking</i>

15.30 – 16.00	Tea break	
16.00 – 18.00	Bytecode 4 (room G)	<p>STATIC ANALYSIS</p> <ul style="list-style-type: none"> 16:00 – 16:30: Enrico Scapin and Fausto Spoto. <i>Field-Sensitive Unreachability and Non-Cyclicity Analysis</i> 16:30 – 17:00: Michael Barnett, Mehdi Bouaziz, Manuel Fahndrich and Francesco Logozzo. <i>A Case for Static Analyzers in the Cloud</i> (Position paper)
	GT-VMT 4 (room D)	<ul style="list-style-type: none"> 16:00 – 16:30: Sabine Winetzhammer and Bernhard Westfechtel: ModGraph meets Xcore. <i>Combining Rule-Based and Procedural Behavioral Modeling for EMF</i> 16:30 – 17:00: Niklas Fors and Görel Hedin. <i>Reusing Semantics in Visual Editors: A Case for Reference Attribute Grammars</i> 17:00 – 17:30: Sonja Maier and Mark Minas. <i>Model Refactoring as a Showcase for Initial Diagram Layout</i>
	TERMGRAPH 4 (room A2)	<ul style="list-style-type: none"> 16:00 – 16:30: Clemens Grabmayer and Jan Rochel. <i>Term Graph Representations for Cyclic Lambda-Terms</i> 16:30 – 17:00: Maribel Fernandez, Ian Mackie and Matthew Walker. <i>Biagraphical Nets</i> 17:00: Closing
	CerCo 4 (room E)	<ul style="list-style-type: none"> 16:00 – 16:15: Gabriele Pulcini. <i>Is source level cost prediction for pipelines and caches possible?</i> 16:15 – 17:00: Round table: <i>Should certified complexity meet probabilistic time analysis?</i> 17:00 – 17:30: Claudio Sacerdoti Coen and Tullio Vardanega. <i>Innovative techniques in timing analysis: cost prediction on high level languages and probabilistic time analysis</i> (joint talk with QAPL – room A1) 17:30 – 18:00: Brian Campbell and Paolo Tranquilli. <i>A certified proof based on structured traces</i>
	FESCA 4 (room F)	<ul style="list-style-type: none"> 16:00 – 17:30: Discussion 17:30 – 17:45: Workshop Closing
	PLACES 4 (room C)	<ul style="list-style-type: none"> 16:00 – 16:30: Eduardo R. B. Marques, Francisco Martins, Vasco T. Vasconcelos, Nicholas Ng and Nuno Dias Martins. <i>Towards deductive verification of MPI programs against session types</i> 16:30 – 17:00: Romain Demeyer and Wim Vanhoof. <i>Verification of Transactions in STM Haskell using Contracts and Program Transformation</i> 17:00 – 17:30: Simon Dobson, Alan Dearle and Barry Porter. <i>Minimising virtual machine support for concurrency</i>
	QAPL 4 (room A1)	<ul style="list-style-type: none"> 16:00 – 16:30: Viktor Schuppan. <i>Enhancing Unsatisfiable Cores for LTL with Information on Temporal Relevance</i> 16:30 – 17:00: Tingting Han, Christian Krause, Marta Kwiatkowska and Holger Giese. <i>Modal Specifications for Probabilistic Timed Systems</i> 17:00 – 17:30: Claudio Sacerdoti Coen and Tullio Vardanega. <i>Innovative techniques in timing analysis: cost prediction on high level languages and probabilistic time analysis</i> (joint talk with CerCo)

Sunday, March 24, 2013

9:00 – 11:00	GRAPHITE 1 (room E)	<ul style="list-style-type: none"> 10:00 – 10:30: Gwen Salaün. <i>Verification of Contract-based Communicating Systems</i> 10:30 – 11:00: Enrico Tronci. <i>Control Software Synthesis from System Level Formal Specifications</i>
	GT-VMT 5 (room D)	<ul style="list-style-type: none"> 9:00 – 9:30: Joel Greenyer, Christian Brenner and Valerio Panzica La Manna. <i>The ScenarioTools Play-Out of Modal Sequence Diagram Specifications with Environment Assumptions</i> 9:30 – 10:00: Christian Colombo and Gordon Pace. <i>Monitor-Oriented Compensation Programming Through Compensating Automata</i> 10:00 – 10:30: Paolo Bottoni and Francesco Parisi Presicce. <i>Annotations on Complex Patterns</i> 10:30 – 11:00: Mark Micallef and Christian Colombo. <i>A Case Study on Graphically Modelling and Detecting Knowledge Mobility Risks</i>

	MLQA 1 + QAPL 5 (room F)	<ul style="list-style-type: none"> 9.00 – 10.00: Martin Fränzle. <i>A tight integration of symbolic, numeric, and statistical methods for the analysis of cyber-physical systems</i> (MLQA invited talk) 10.00 – 11.00: Paolo Zuliani. <i>Statistical Model Checking for Cyber-Physical Systems</i> (QAPL invited talk)
11.00 – 11.30	Coffee break	
11.30 – 12.30	GRAPHITE 2 (room E)	<ul style="list-style-type: none"> 11:30 – 12:00: Nils Semmelrock and Mila Majster-Cederbaum. <i>Reachability on Cooperating Systems with Architectural Constraints is PSPACE-Complete</i> 12:00 – 12:30 Stefan Edelkamp. <i>Graph Matching and Shortest Path Search for Multi-Modal Public Transportation</i>
	GT-VMT 6 (room D)	<ul style="list-style-type: none"> 11.30 – 12.30: Holger Giese. <i>Extensions of Graph Transformation Systems for Timed, Continuous, and Probabilistic Behavior</i> (invited talk)
	MLQA 2 + QAPL 6 (room F)	<ul style="list-style-type: none"> 11.30 – 12.30: Flemming Nielson. <i>Guarding against Denial of Service Attacks</i> (MLQA invited talk)
12.30 – 14.00	Lunch	
14.00 – 15.30	GRAPHITE 3 (room E)	<ul style="list-style-type: none"> 14:00 – 14:30: Arend Rensink. <i>Recipes for Reduced State Spaces</i> 14:30 – 15:00: Alberto Lluch-Lafuente. <i>State Space c-Reductions of Concurrent Systems in Rewriting Logic</i> 15:00 – 15:30: Anton Wijs. <i>Sequential and Distributed On-the-fly Computation of Weak Tau-Confluence</i>
	QAPL 7 (room F)	<ul style="list-style-type: none"> 14.00 – 14.30: QAPL Steering Committee 14.30 – 15.00: Marco Bernardo, Rocco De Nicola and Michele Loreti. <i>The Spectrum of Strong Behavioral Equivalences for Nondeterministic and Probabilistic Processes</i> 15.00 – 15.30: Tahiry Rabehaja, Annabelle McIver and Georg Struth. <i>Probabilistic Concurrent Kleene Algebra</i>
15.30 – 16.00	Tea break	
16.00 – 18.00	GRAPHITE 4 (room E)	<ul style="list-style-type: none"> 16:00 – 16:30: Jeroen Ketema. <i>GPUVerify: A Verifier for GPU Kernels</i> 16:30 – 17:00: Dragan Bosnacki. <i>Parallel Algorithms for Reconstruction of Interaction Graphs from Perturbation Experiments</i>
	QAPL 8 (room F)	<ul style="list-style-type: none"> 16.00 – 16.30: Nathalie Bertrand and Philippe Schnoebelen. <i>Solving Stochastic Büchi Games on Infinite Arenas with a Finite Attractor</i> 16.30 – 17.00: Arjun Arul and Julien Reichert. <i>The Complexity of Robot Games on the Integer Line</i>