17th European Joint Conferences on Theory and Practice of Software

ETAPS 2014

Grenoble, France, April 5-13, 2014

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Final Programme

Université Joseph Fourier
Grenoble, France
www.ujf-grenoble.fr

Welcome to ETAPS 2014!

Dear Colleague,

Welcome to Grenoble, that has the pleasure and the honour of hosting ETAPS for the second time, the 5th edition in 2002 and the 17th edition this year. This last edition of ETAPS comprises 6 main conferences, 23 satellite workshops, 2 tutorials and a few other satellite events.

The main conferences attracted 606 full submissions, resulting in 155 contributed talks in the program. For the workshops, the program includes around 200 invited and contributed talks. At the time of printing, more than 640 registrations to ETAPS were received. These are remarkable numbers, confirming the leading role of ETAPS in the scientific landscape and, mostly, in software science.

We also hope that you can find time to enjoy Grenoble. The proximity of the mountains, as well as its size, has led to the city being known in France as the "Capital of the Alps". Grenoble's history goes back more than 2,000 years, at a time when it was a small Gallic village. While it gained in stature by becoming the capital of the Dauphiné in the 11th century, Grenoble remained for most of its history a modest parliamentary and garrison city on the borders of the kingdom of France.

The time of the year should allow you to have pleasant walks around. You will also have several opportunities to love our delicious food, both during the conference and during the dinners you can have after a stimulating scientific day.

We wish you a productive conference and an enjoyable stay in Grenoble.

Saddek Bensalem

General Chair of the organizing committee of ETAPS

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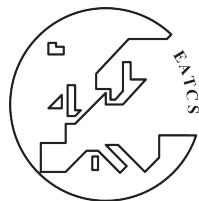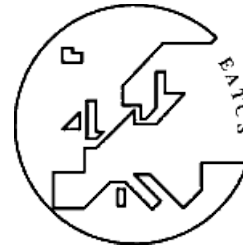
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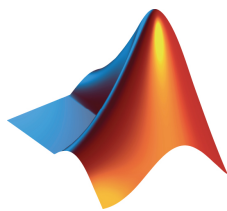# Partners and Sponsors

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ETAPS 2014 Constituent Events

ETAPS 2014 consists of six main conferences:
- 23rd International Conference on Compiler Construction (CC),
- 23rd European Symposium on Programming (ESOP),
- 17th International Conference on Fundamental Approaches to Software Engineering (FASE),
- 17th International Conference on Foundations of Software Science and Computation Structures (FoSSaCS),
- 3rd Conference on Principles of Security and Trust (POST),
- 20th International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS).

In addition, there are 22 satellite workshops:
- From Programs to Systems - The Systems Perspective in Computing
- 1st Cassting Workshop (Cassting)
- 12th International Workshop on Coalgebraic Methods in Computer Science (CMCS)
- 5th International workshop on Developments in Implicit Computational complExity (DICE)
- 11th International Workshop on Formal Engineering approaches to Software Components and Architectures (FESCA)
- 1st Workshop on Formal Integrated Development (F-IDE)
- Games for Logic and Programming Languages IX (GALOP)
- 3rd Workshop on GRAPH Inspection and Traversal Engineering (GRAPHITE)
- International Workshop on Graphical Models for Security (GraMSec)
- 13th International Workshop on Graph Transformation and Visual Modeling Techniques (GT-VMT)
- 4th Workshop on Hybrid Autonomous Systems (HAS)
- 2nd Workshop on Hot issues in Security Principles and Trust (Hot-Spot)
- 9th Workshop on Model-Based Testing (MBT)
- 2nd Workshop on Mobility between Europe and Argentina applying Logics to Systems (MEALS)
- 5th Workshop on Mathematically Structured Functional Programming (MSFP)
- 6th Workshop on Programming Language Approaches to Concurrency and Communication-cEntric Software (PLACES)
- 12th Workshop on Quantitative Aspects of Programming Languages (QAPL)
- Workshop on Reconciling Performance with Predictability (RePP)
- 2nd International Workshop on Strategic Reasoning (SR)
- 1st International Workshop on Synthesis of Continuous Parameters (SynCop)
- 3rd Workshop on Validation Strategies for Software Evolution (VSSE)
- 10th International Workshop on Rewriting Logic and Its Applications (WRLA)

To complete the program, ETAPS 2014 also hosts:
- 20 Years of TACAS - Workshop and Celebration

• ETAPS 2014 general schedule

Scientific Programme

	Workshops		Main conferences					Workshops	
	Saturday April 5th	*Sunday April 6th*	**Monday April 7th**	**Tuesday April 8th**	**Wednesday April 9th**	**Thursday April 10th**	**Friday April 11th**	*Saturday April 12th*	*Sunday April 13th*
	CMCS	CMCS	**CC**						
	DICE	DICE		**ESOP**	**ESOP**	**ESOP**		CASSTING	
		F-IDE		**FASE**	**FASE**	**FASE**	**FASE**	FESCA	
		FPS		**FOSSACS**	**FOSSACS**	**FOSSACS**	**FOSSACS**	GALOP	GALOP
	GRAPHITE		**POST**	**POST**				GRAMSEC	
	GT-VMT	GT-VMT	**TACAS**	**TACAS**	**TACAS**	**TACAS**	**TACAS**	HAS	
	HOT-SPOT							MSFP	
		MBT						PLACES	
		MEALS						QAPL	QAPL
		RePP							
	SR	SR							
		SynCop							
	VSSE								
	WRLA	WRLA							

	Monday April 7th	*Tuesday April 8th*	*Wednesday April 9th*	*Thursday April 10th*	*Friday April 11th*
08h30 - 09h00	Opening				
09h00 - 10h00	CC Invited Speaker Benoit Dupont de Dinechin	FASE Invited Speaker Christel Baier	ETAPS Invited Speaker Geoffrey Smith	ETAPS Invited Speaker John Launchbury	FOSSACS Invited Speaker Petr Jančar
10h00 - 10h30	Coffee Break				
10h30 - 12h30	CC - POST TACAS	ESOP - FASE FOSSACS - TACAS	ESOP - FASE TACAS	ESOP - FOSSACS TACAS SV-COMP	FASE - FOSSACS TACAS
12h30 - 14h00	Lunch				
14h00 - 16h00	CC - POST TACAS	POST Invited Speaker David Mazières / ESOP - FASE FOSSACS - POST - *TACAS 20 years* -	ESOP Invited Speaker Maurice Herlihy / ESOP - FASE FOSSACS - TACAS	TACAS Invited Speaker Orna Kupferman / ESOP - FASE FOSSACS - TACAS	FASE - FOSSACS TACAS
16h00 - 16h30	Coffee Break				
16h30 - 18h00	CC - POST TACAS	ESOP - POST - Tutorial I: Andy Gordon - - *TACAS 20 years* -	ESOP - FASE FOSSACS - TACAS	ESOP - FASE TACAS - Tutorial II: Bernd Finkbeiner -	FOSSACS - TACAS
18h15 - 20h15				*SC Meeting*	
	Reception		Dinner	*SC Dinner*	

Social Events

More indications are on the Website. Last minute changes (if any) will be announced at the conference during the day and in the ETAPS newsletter, which will be online in the morning every day.

- **1st Workshop Dinner, Sunday, April 6, 2014, 8pm <u>Restaurant Per'Gras</u>** Overlooking Grenoble: "La Bastille".

  How to go there: We'll take the "bubble" cable cars up 260 meters to the top of La Bastille at 19:00.

- **Reception, Monday, April 7, 2014, 7:30pm – 10pm <u>Musée de Grenoble</u>** (one of the most important French art collection outside Paris)
  <u>5 place de Lavalette</u> 38000 Grenoble.

  How to go there: next to tram station "Notre Dame" (of tram line B).

- **TACAS Dinner, Tuesday, April 8, 2014, 8pm Restaurant <u>Chasse Spleen</u>** 6 Place de Lavalette, 38000 Grenoble

  How to go there: next to tram station "Notre Dame" (of tram line B).

- **ETAPS Dinner, Wednesday, April 9, 2014, 8pm <u>Chateau de Sassenage</u>** 38360 Sassenage.

  How to go there: Sassenage is a few km outside Grenoble.

  Busses will leave at 19:30 from the conference place.

- **2nd Workshop Dinner, Saturday, April 12, 2014 Restaurant <u>Chasse Spleen</u>** 6 Place de Lavalette, 38000 Grenoble

  How to go there: next to tram station "Notre Dame" (of tram line B).

Venues

Conference venue (main conferences): World Trade Center of Grenoble
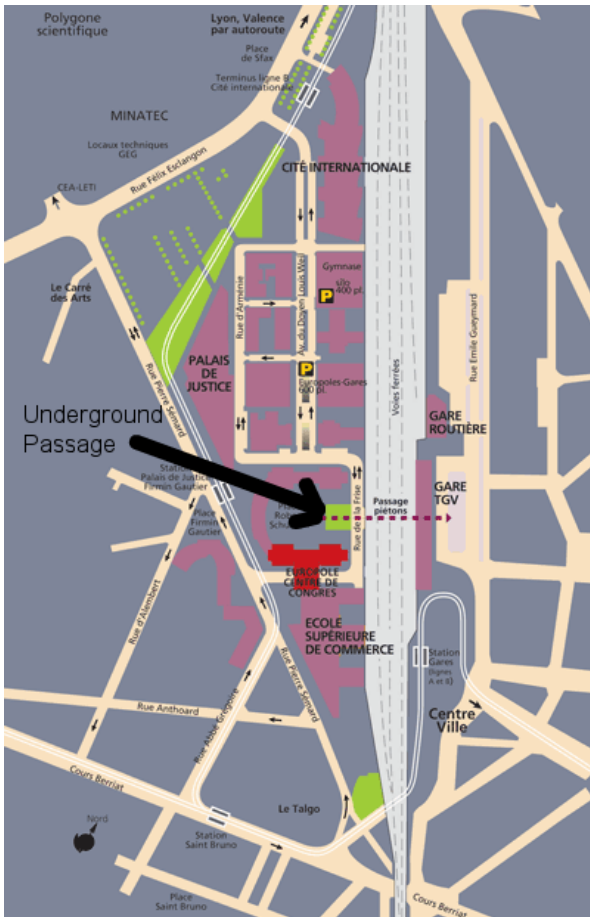
Europole is located near the Grenoble train station. It's possible to cross the train station directly, via an underground passage way (see map).

If you are coming from further away, simply take the tram line "B" to the "Palais de Justice" stop.
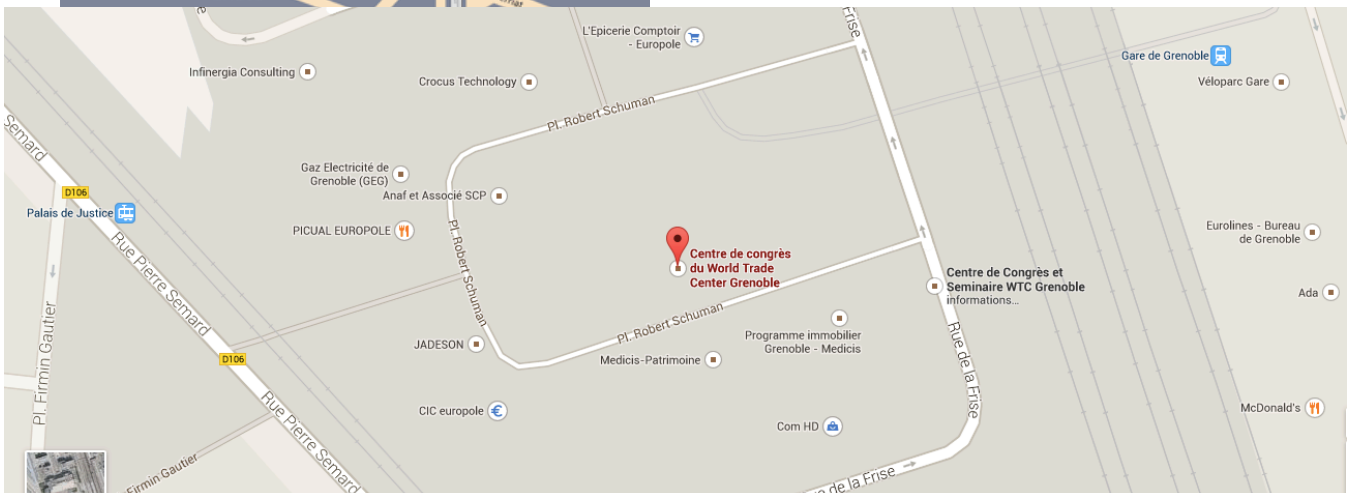
Workshop venue (Grenoble Campus, UFR IM2AG)

To reach the workshop venue, please take tram B or C and get off at the stop "Bibliothèques Universitaire" (tram stops are announced). Use the map below to reach the workshop venue (5min walk).
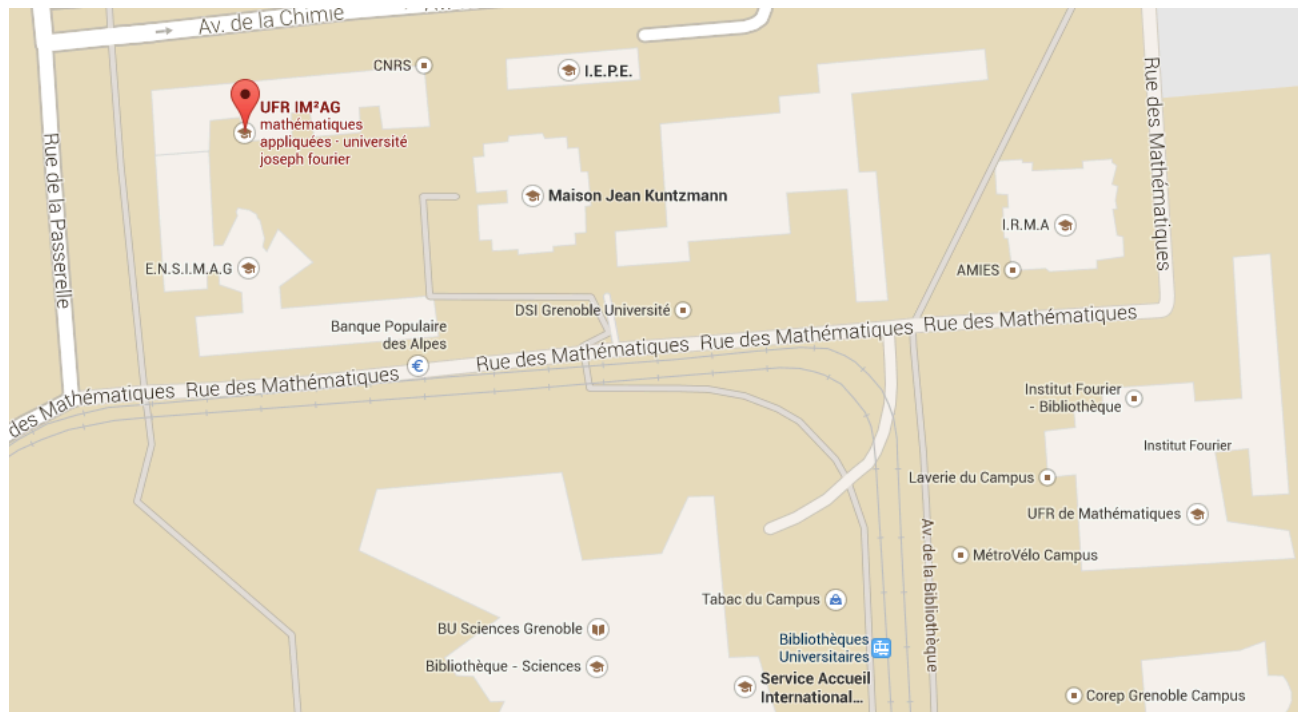
Photo of the venue

Pre-Conference Satellite Workshops: Programme

Saturday, April 5, 2014

		Saturday, April 5th
09h00 - 10h30	**CMCS** Room: **F320**	▪ Davide Sangiorgi. *Higher-order languages: bisimulation and coinductive techniques* (*invited talk*)
	DICE Room: **F316**	▪ Akitoshi Kawamura. *Applying higher-type complexity to analysis* (*invited talk*)
	GRAPHITE Room: **F116**	▪ Radu Mateescu. *Walking Back and Forth in Labelled Transition Systems* (*invited talk*)
	GTVMT Room: **F018**	▪ Philippe Palanque. *Model-Based Engineering of Resilient Interactive Systems* (*invited talk*)
	HOTSPOT Room: **F112**	▪ Mark Ryan and Jia Liu. *Verifiably accountable surveillance* ▪ Lili Xu, Konstantinos Chatzikokolakis, Huimin Lin and Catuscia Palamidessi. *Metrics for Differential Privacy in Concurrent Systems* ▪ Chiara Bodei, Pierpaolo Degano, Letterio Galletta and Francesco Salvatori. *Here you can't: context-aware security*
	SR Room: **F309**	▪ Thomas Henzinger. *Simulation Games* (*invited talk*)
	VSSE Room: **F114**	▪ Leon Moonen. *Model-based information flow analysis to support software certification* ▪ Arie Gurfinkel. *Verifying Programs with Evolving (Under)-Approximations*
	WRLA Room: **F022**	▪ Peter Ölveczky. *Real-Time Maude and its Applications* (*invited talk*) ▪ Si Liu, Peter Csaba Ölveczky and José Meseguer. *A Framework for Mobile Ad hoc Networks in Real-Time Maude*
10h30 - 11h00		**Coffee Break**
	CMCS Room: F320	▪ Sebastian Enqvist and Joshua Sack. *A coalgebraic view of characteristic formulas in equational modal fixed point logic* ▪ H. Peter Gumm and Mehdi Zarrad. *Coalgebraic simulations and congruences* ▪ Wolfram Kahl. *Categories of coalgebras with monadic homomorphisms*
	DICE Room: F316	▪ Patrick Baillot, Erika De Benedetti and Simona Ronchi Della Rocca. *Characterizing polynomial and exponential complexity classes in elementary lambda-calculus* ▪ Brian Redmond. *Soft Linear Logic and the Polynomial Hierarchy*
	GRAPHITE Room: F116	▪ Gijs Kant and Jaco Van De Pol. *Generating and Solving Symbolic Parity Games* ▪ Maribel Fernandez, Helene Kirchner and Bruno Pinaud. *Strategic portgraph rewriting: an interactive modelling and analysis framework* ▪ Roi Blanco, Paolo Boldi and Andrea Marino. *Entity-Linking via Graph-Distance Minimization*
	GTVMT Room: F018	▪ Frederik Deckwerth and Gergely Varro. *Generating Preconditions from Graph Constraints by Higher Order Graph Transformation* ▪ Paolo Bottoni, Andrew Fish, Alexander Heußner and Francesco Parisi-Presicce. *Modeling Spider Diagrams with Resources*
	HOTSPOT Room: F112	▪ Massimo Bartoletti, Alceste Scalas and Roberto Zunino. *Towards a theory of honesty* ▪ Davide Basile, Pierpaolo Degano and Gian-Luigi Ferrari. *Automata for Service Contracts* ▪ Pedro Adão, Claudio Bozzato, Gian-luca Dei Rossi, Riccardo Focardi and Flaminia Luccio. *A semantic based tool for firewall configuration*
	SR Room: F309	▪ Véronique Bruyère, Emmanuel Filiot, Mickael Randour and Jean-Francois Raskin. *Expectations or Guarantees? I Want It All! A crossroad between games and MDPs* ▪ Lluis Godo and Enrico Marchioni. *Games for the Strategic Influence of Expectations* ▪ Wojtek Jamroga, Matthijs Melissen, and Henning Schnoor. *Defendable Security in Interaction Protocols*
	VSSE Room: F114	▪ Barbara Jobstmann. *Program Repair without Regret* ▪ K. Rustan M. Leino. *Programming in Stages*

	WRLA Room: **F022**	▪ Kyungmin Bae and Jose Meseguer. *Infinite-State Model Checking of LTLR Formulas Using Narrowing* ▪ Thomas Genet. *Towards Static Analysis of Functional Programs using Tree Automata Completion* ▪ Salvador Lucas and Jose Meseguer. *2D Dependency Pairs for Proving Operational Termination of CTRSs*
12h30 **-** **14h00**	**Lunch**	
14h00 **-** **16h00**	**CMCS** Room: **F320**	▪ Paul Andre Mellies. *The algebraic and coalgebraic sides of game semantics* ▪ Marina Lenisa. *Coalgebraic games (**invited talk**)*
	DICE Room: **F316**	▪ Georg Moser. *Automated Complexity Analysis Based on the Dependency Pair Method (**invited talk**)* ▪ Martin Avanzini and Naohi Eguchi. *A New Term Rewriting Characterisation of ETIME functions*
	GRAPHITE Room: **F116**	▪ Giorgio Delzanno, Arend Rensink and Riccardo Traverso. *Graph- versus Vector-Based Analysis of a Consensus Protocol* ▪ William Mansky, Dennis Griffith and Elsa Gunter. *Specifying and Executing Optimizations for Parallel Programs* ▪ Valerio Senni and Michele Stawowy. *Backwards State-space Reduction for Planning in Dynamic Knowledge Bases* ▪ Steffen Ziegert. *Graph Transformation Planning via Abstraction*
	GTVMT Room: **F018**	▪ Erhan Leblebici, Anthony Anjorin, Andy Schürr, Stephan Hildebrandt, Jan Rieke and Joel Greenyer. *A Comparison of Incremental Triple Graph Grammar Tools* ▪ Eduardo Zambon and Arend Rensink. *Solving the N-Queens Problem with GROOVE - Towards a Compendium of Best Practices*
	HOTSPOT Room: **F112**	▪ David Naccache. *New Algorithmic Approaches to Point Constellation Recognition (**invited talk**)* ▪ Afonso Arriaga, Qiang Tang and Peter Ryan. *Trapdoor Privacy in Asymmetric Searchable Encryption Schemes* ▪ Jiangshan Yu, Vincent Cheval and Mark Ryan. *DTKI: Distributed transparent key infrastructure*
	SR Room: **F309**	▪ Francesco Belardinelli. *Reasoning about Knowledge and Strategies: Epistemic Strategy Logic* ▪ Xiaowei Huang and Ron van der Meyden. *An Epistemic Strategy Logic* ▪ Alessio Lomuscio. *TBA (**invited talk**)*
	VSSE Room: **F114**	▪ Fabrizio Pastore. *Verification-Aided Regression Testing* ▪ Margus Veanes. *Applications of Symbolic Finite Automata* ▪ Grigory Fedyukovich. *Producing Effective Interpolants for SAT-based Incremental Verification and Upgrade Checking*
	WRLA Room: **F022**	▪ Cesare Tinelli. *Extending SMT solving with constrained deduction and rewrite rules (**invited talk**)* ▪ Camilo Rocha, José Meseguer and Cesar Munoz. *Rewriting Modulo SMT and Open System Analysis* ▪ Luis Aguirre, Narciso Marti-Oliet, Miguel Palomino and Isabel Pita. *Conditional Narrowing Modulo in Rewriting Logic and Maude*
16h00 **-** **16h30**	**Coffee Break**	
16h30 **-** **18h00**	**CMCS** Room: **F320**	▪ Pierre Lescanne. *Coinduction, equilibrium and escalation, or the rationality of madness* ▪ Henning Basold, Helle Hvid Hansen and Jan Rutten. *A note on typed behavioural differential equations* ▪ Baltasar Trancón Y Widemann and Markus Lepper. *Foundations of total functional data-flow programming, coinductively*
	DICE Room: **F316**	▪ Beniamino Accattoli and Ugo Dal Lago. *Beta Reduction is Invariant, Indeed*
	GTVMT Room: **F018**	▪ Mudhafar Hussein, Reiko Heckel, Vincent Danos and Pawel Sobocinski. *Modelling Adaptive Networks: The Case of the Petrified Voters* ▪ Jan Stückrath and Benjamin Weyers. *Lattice-extended Coloured Petri Net Rewriting for Adaptable User Interface Models*
	HOTSPOT	▪ Miriam Paiola and Bruno Blanchet. *From the Applied Pi Calculus to Horn Clauses for*

	Room: **F112**	*Protocols with Lists* ▪ Vincent Cheval and Veronique Cortier. *Timing attacks: symbolic framework and proof techniques* ▪ Ghazi Maatoug, Frédéric Dadeau and Michaël Rusinowitch. *Model-Based Vulnerability Testing of Payment Protocol Implementations*
	SR Room: **F309**	▪ Krishnendu Chatterjee, Laurent Doyen, Emmanuel Filiot, and Jean-Francois Raskin. *Doomsday Equilibria for Omega-Regular Games* ▪ Patricia Bouyer, Nicolas Markey, and Steen Vester. *Nash Equilibria in Symmetric Games with Partial Observation*
	WRLA Room: **F022**	▪ Salvador Lucas and Jose Meseguer. *Strong and Weak Operational Termination of Order-Sorted Rewrite Theories* ▪ Dominik Klein. *Key-Secrecy of PACE with OTS/CafeOBJ* ▪ Si Liu, Muntasir Raihan Rahman, Stephen Skeirik, Indranil Gupta and José Meseguer. *Formal Modeling and Analysis of Cassandra in Maude* ▪ Irina Mariuca Asavoae, Mihail Asavoae and Adrian Riesco. *Towards a Formal Semantics-Based Technique for Interprocedural Slicing*

Sunday, April 6, 2014

		Sunday, April 6th
09h00 - 10h30	**CMCS** Room: **F320**	▪ Ichiro Hasuo. *Towards coalgebraic model checking (**invited talk**)* ▪ Bart Jacobs. *Dijkstra monads in monadic computation*
	DICE Room: **F316**	▪ Dan Ghica. *Resource control via bounded linear typing (**invited talk**)*
	FIDE Room: **F112**	▪ Rustan Leino and Valentin Wüstholz. *The Dafny Integrated Development Environment* ▪ Jens Bendisposto, Sebastian Krings and Michael Leuschel. *Who watches the watchers: Validating the ProB Validation Tool*
	FPS Room: **MJK**	▪ Alberto Sangiovanni-Vincentelli. *Let's get physical: computer science meets systems* ▪ Janos Sztipanovits. *OpenMETA: A Model- and Component-Based Design Tool Chain for Cyber-Physical Systems*
	GTVMT Room: **F018**	▪ Dániel Varró. *Distributed Incremental Model Queries (**invited talk**)*
	MBT Room: **F109**	▪ TBA
	MEALS Room: **F111**	▪ Goran Frehse. *Scalable Verification of Cyber-Physical Systems Using Support Functions (**invited talk**)* ▪ Eric Wognsen. *Battery-Aware Scheduling of Mixed Criticality Systems*
	REPP Room: **F114**	▪ Sebastian Hahn, Jan Reineke, and Reinhard Wilhelm. *Compositionality in Execution Time Analysis* ▪ David Broman. *Precision Timed Processors and WCET-Aware Code Management for Mixed-Criticality Systems*
	SR Room: **F309**	▪ Wiebe Van Der Hoek. *Two Themes in Modal Logic (**invited talk**)*
	SYNCOP Room: **F116**	▪ Didier Lime. *TBA (**invited talk**)*
	WRLA Room: **F022**	▪ Alberto Lluch-Lafuente. *Can we efficiently check concurrent programs under relaxed memory models in Maude? (**invited talk**)* ▪ Peter D. Mosses and Ferdinand Vesely. *FunKons: Component-Based Semantics in K*
10h30 - 11h00		Coffee Break
11h00 - 12h30	**CMCS** Room: **F320**	▪ Baltasar Trancón Y Widemann and Michael Hauhs. *Algebraic-coalgebraic recursion theory of history-dependent dynamical system models* ▪ Filippo Bonchi, Daniela Petrisan, Damien Pous and Jurriaan Rot. *Coinduction up-to in a fibrational setting* ▪ Pierre Lescanne. *An exercise on streams: convergence acceleration (an abstract)* ▪ Sergey Goncharov, Stefan Milius and Alexandra Silva. *Towards a coalgebraic Chomsky hierarchy*
	DICE Room: **F316**	▪ Michael Schaper. *A Complexity Preserving Transformation from Jinja Bytecode to Rewrite Systems* ▪ Mauro Piccolo, Claudio Sacerdoti Coen and Paolo Tranquilli. *The labelling approach to precise resource analysis on the source code, revisited*
	FIDE Room: **F112**	▪ Mathieu Jaume and Théo Laurent. *Teaching Formal Methods and Discrete Mathematics* ▪ David R. Cok and Scott Johnson. *SPEEDY: An Eclipse-based IDE for invariant inference* ▪ Damien Doligez, Christele Faure, Thérèse Hardin and Manuel Maarek. *Experience in using a typed functional language for the development of a security application*
	FPS Room: **MJK**	▪ David Harel. *Steps Towards Scenario-Based Programming with a Natural Language Interface* ▪ Manfred Broy. *A Model of Dynamic Systems* ▪ Martin Wirsing. *Assembly Theories for Communication-Safe Component Systems*
	GTVMT Room: **F018**	▪ Christian Brenner, Joel Greenyer, Jörg Holtmann, Grischa Liebel and Matthias Tichy. *ScenarioTools Real-Time Play-Out for Test Sequence Validation in an Automotive Case Study*

		▪ Abdullah Alshanqiti and Reiko Heckel. *Towards Dynamic Reverse Engineering Visual Contracts from Java*
	MBT Room: **F109**	▪ TBA
	MEALS Room: **F111**	▪ Pedro D'Argenio. *Structured Operational Semantics for Probabilistic and Nondeterministic Languages* ▪ Anton Wijs. *GPU-Based Graph Decomposition into Strongly Connected and Maximal End Components* ▪ Joost-Pieter Katoen. *Probably Safe or Live?*
	REPP Room: **F114**	▪ Sophie Quinton and Rolf Ernst. *Typical Worst-Case Analysis: Designing Real-Time Systems for the Hard and Weakly-Hard Case* ▪ Joerg Mische, Stefan Metzlaff, and Theo Ungerer. *Distributed Memory on Chip - Bringing Together Low Power and Real-Time* ▪ Thomas Carle, Manel Djemal, Dumitru Potop Butucaru, Robert de Simone, Zhen Zhang, Francois Pecheux, and Franck Wajbuerst. *Reconciling performance and predictability on a many-core through off-line mapping*
	SR Room: **F309**	▪ Dimitar Guelev. *Refining and Delegating Strategic Ability in ATL* ▪ Clàudia Nalon, Lan Zhang, Clare Dixon, and Ullrich Hustadt. *A Resolution Calculus for Coalition Logics* ▪ Xiang Jiang and Arno Pauly. *Decomposing Bimatrix Games*
	SYNCOP Room: **F116**	▪ Karin Quaas. *MTL-model checking of One-Clock Parameterized Timed Automata is Undecidable* ▪ Vahid Hashemi, Hassan Hatefi and Jan Krcal. *Probabilistic Bisimulations for PCTL Model Checking of Interval MDPs* ▪ Stefano Schivo, Jetse Scholma, Marcel Karperien, Janine N. Post, Jaco Van De Pol and Rom Langerak. *Setting parameters for biological models with ANIMO*
	WRLA Room: **F022**	▪ Andrei Arusoaie, Dorel Lucanu, Vlad Rusu, Traian Florin Serbanuta, Grigore Rosu and Andrei Stefanescu. *Language Definitions as Rewrite Theories* ▪ Min Zhang, Yunja Choi and Kazuhiro Ogata. *A Formal Semantics of the OSEK/VDX Standard in K Framework and its Applications* ▪ Adrian Riesco. *An integration of CafeOBJ into Full Maude*
12h30 - 14h00	Lunch	
14h00 - 16h00	**CMCS** Room: **F320**	▪ Robert Myers, Jiri Adámek, Stefan Milius and Henning Urbat. *Canonical nondeterministic automata* ▪ Henning Kerstan, Barbara König and Bram Westerbaan. *Lifting adjunctions to coalgebras to (re)discover automata constructions* ▪ Tomasz Brengos. *On coalgebras with internal moves* ▪ Filippo Bonchi, Stefan Milius, Alexandra Silva and Fabio Zanasi. *How to kill epsilons with a dagger - a coalgebraic take on systems with algebraic label structure*
	DICE Room: **F316**	▪ Damiano Mazza (to be confirmed). *Non-Uniform Polytime Computation in the Infinitary Affine Lambda-Calculus* (**invited talk**) ▪ Matthieu Perrinel. *Context semantics for interaction nets*
	FIDE Room: **F112**	▪ Carlo Furia and Julian Tschannen. *The Gotthard approach: Designing an Integrated Verification Environment for Eiffel* (**invited talk**) ▪ François Pessaux. *FoCaLiZe: Inside an F-IDE* ▪ David Cok. *OpenJML: Software verification for Java 7 using JML, OpenJDK, and Eclipse*
	FPS Room: **MJK**	▪ Moshe Vardi. *TBA* ▪ Kim Guldstrand Larsen. *Parametric and Quantitative Extensions of Modal Transition Systems* ▪ Lenore Zuck. *Reasoning about Network Topologies in Space* ▪ Doron Peled. *Compositional Branching-Time Measurements*
	GTVMT Room: **F018**	▪ Xiaoliang Wang, Yngve Lamo and Fabian Büttner. *Verification of Graph-based Model Transformations Using Alloy* ▪ *Discussion*
	MBT Room: **F109**	▪ TBA
	MEALS Room: **F111**	▪ Allan van Hulst. *Control Synthesis for Modal Logic* ▪ Emilio Tuosto. *Synthesis of Graphical Multiparty Session Types* ▪ Hernan Melgratti. *On the Behaviour of Programs Running over Weak Consistent*

	REPP Room: **F114**	*Stores* ▪ Arnd Hartmanns. *The MoDeST Toolset* ▪ Pascal Raymond, Claire Maiza, Catherine Parent-Vigouroux, Fabienne Carrier, and Mihail Asavoae. *Timing Analysis Enhancement for Synchronous Program* ▪ Florian Kluge, Mike Gerdes, Florian Haas, and Theo Ungerer. *A Generic Timing Model for Cyber-Physical Systems* ▪ Insa Fuhrmann, David Broman, Steven Smyth, and Reinhard von Hanxleden. *Towards Interactive Timing Analysis for Designing Reactive Systems* ▪ Michael Mendler, Brino Bodin, Partha Roop, and Jai Jie Wang. *The WCRT analysis of synchronous programs: Studying the tick alignment problem*
	SR Room: **F309**	▪ Benjamin Aminof and Sasha Rubin. *Cycle Games* ▪ Dietmar Berwanger and Anup Basil Mathew. *Games with Recurring Certainty* ▪ Wolfgang Thomas. *TBA (**invited talk**)*
	SYNCOP Room: **F116**	▪ Alexandre Donzé. *Parameter Synthesis for Signal Temporal Logic (**invited talk**)* ▪ Giuseppe Lipari, Youcheng Sun, Étienne André and Fribourg Laurent. *Toward Parametric Timed Interfaces for Real-Time Components* ▪ Mladen Skelin, Marc Geilen, Francky Catthoor and Sverre Hendseth. *Worst-case Throughput Analysis for Parametric Rate and Parametric Actor Execution Time Scenario-Aware Dataflow Graphs*
	WRLA Room: **F022**	▪ Francisco Durán. *On the composition of graph-transformation-based DSL definitions (**invited talk**)* ▪ Massimo Bartoletti, Maurizio Murgia, Alceste Scalas and Roberto Zunino. *Modelling and verifying contract-oriented systems in Maude* ▪ Mu Sun and José Meseguer. *Formal Specification of Button-Related Fault-Tolerance Micropatterns*
16h00 - 16h30		Coffee Break
16h30 - 18h00	**CMCS** Room: **F320**	▪ Baltasar Trancón Y Widemann. *Towards systematic construction of temporal logics for dynamical systems via coalgebra* ▪ Corina Cirstea. *A modular approach to linear-time logics* ▪ Benedikt Ahrens and Régis Spadotti. *Coinitial semantics for redecoration of triangular matrices* ▪ Faris Abou-Saleh and James McKinna. *A coalgebraic approach to bidirectional transformations*
	DICE Room: **F316**	▪ *Business Meeting*
	FIDE Room: **F112**	▪ John Witulski and Michael Leuschel. *Checking Computations of Formal Method Tools - A Secondary Toolchain for ProB* ▪ *Discussion*
	FPS Room: **MJK**	▪ Michel Raynal. *What Can be Computed in a Distributed System ?* ▪ Joseph Sifakis. *Toward a System Design Science*
	MBT Room: **F109**	▪ TBA
	MEALS Room: **F111**	▪ *MEALS Business*
	REPP Room: **F114**	▪ *Moderated Discussion*
	SR Room: **F309**	▪ Guillaume Aucher, Bastien Maubert, and Sophie Pinchinat. *Automata Techniques for Epistemic Protocol Synthesis* ▪ Piero Bonatti, Marco Faella, and Luigi Sauro. *Partial Preferences for Mediated Bargaining*
	WRLA Room: **F022**	▪ Nissreen El-Saber and Artur Boronat. *Formalization and Verification of BPMN Models using Maude* ▪ Mu Sun, José Meseguer and Lui Sha. *A Formal Heartbeat Pattern for Open-Loop Safety of Networked Medical Devices* ▪ Lenz Belzner. *Value Iteration for Relational MDPs in Rewriting Logic* ▪ Andrew Cholewa, Fan Yang, Catherine Meadows and Jose Meseguer. *Maude-PSL : Reconciling Intuitive and Formal Specification in Cryptographic Protocol Analysis*

20h00 - 23h00	Dinner at Restaurant Chez le Per'Gras

Main Conferences: Programme

Monday, April 7th, 2014

Monday, April 7th

08h30 - 09h00	Room: Amphitheater **ETAPS Opening** Joost-Pieter Katoen (RWTH Aachen University, Germany)
09h00 - 10h00	Room: Amphitheater **CC Invited Speaker** (chair: Albert Cohen) Benoit Dupont de Dinechin (Kalray, France) *Using the SSA-Form in a Code Generator*
10h00 - 10h30	Coffee Break

	CC / Room: Mont Blanc *Program Analysis and Optimization*	POST / Room: Makalu *Analysis of Cryptographic Protocols (chair: Steve Kremer)*	TACAS / Room: Amphitheater *Decision procedures and their application in analysis I (chair: Cesare Tinelli)*
10h30 - 12h30	▪ Andre Tavares, Benoit Boissinot, Fernando Pereira and Fabrice Rastello. *Parameterized Construction of Program Representations for Sparse Dataflow Analyses* (25mn) ▪ Rishi Surendran, Rajkishore Barik, Jisheng Zhao and Vivek Sarkar. *Inter-iteration Scalar Replacement Using Array SSA Form* (25mn) ▪ Venkatesh Srinivasan and Thomas Reps. *Recovery of Class Hierarchies and Composition Relationships from Machine Code* (25mn) ▪ Amitabha Sanyal, Alan Mycroft, Amey Karkare and Rahul Asati. *Liveness-Based Garbage Collection* (25mn) ▪ Henri-Pierre Charles, Damien Couroussé, Victor Lomüller, Fernando A. Endo and Rémy Gauguey. *deGoal a tool to embed dynamic code generators into applications* (Tool presentation, 15mn)	▪ David Baelde, Stéphanie Delaune and Lucca Hirschi. *A Reduced Semantics for Deciding Trace Equivalence using Constraint Systems* ▪ Myrto Arapinis, Jia Liu, Eike Ritter and Mark Ryan. *Stateful Applied Pi Calculus* ▪ Michael Backes, Esfandiar Mohammadi and Tim Ruffing. *Computational Soundness Results for ProVerif: Bridging the Gap from Trace Properties to Uniformity* ▪ David Lubicz, Graham Steel and Marion Daubignard. *A Secure Key Management Interface with Asymmetric Cryptography*	▪ Francesco Alberti, Silvio Ghilardi and Natasha Sharygina. *Decision Procedures for Flat Array Properties* ▪ Alessandro Armando, Roberto Carbone and Luca Compagna. *SATMC: a SAT-based Model Checker for Security-critical Systems* ▪ Alessandro Cimatti, Alberto Griggio, Sergio Mover and Stefano Tonetta. *IC3 Modulo Theories via Implicit Predicate Abstraction* ▪ Hassan Eldib, Chao Wang and Patrick Schaumont. *SMT-Based Verification of Software Countermeasures against Side-Channel Attacks*
12h30 - 14h00	Lunch		
14h00 - 16h00	CC / Room: Mont Blanc *Parallelism and Parsing* ▪ Paul Feautrier, Éric Violard and Alain Ketterlin. *Improving X10 Program Performance by Clock Removal* (25mn) ▪ Jayvant Anantpur and Govindarajan R. *Taming Control Divergence in GPUs through Control Flow Linearization* (25mn) ▪ Zheng Wang, Daniel Powell, Bjoern Franke and Michael O'Boyle. *Exploitation of GPUs for*	POST / Room: Makalu *Quantitative Aspects of Information Flow (chair: Catuscia Palamidessi)* ▪ ==Annabelle McIver, Carroll Morgan, Geoffrey Smith, Barbara Espinoza and Larissa Meinicke. *Abstract Channels and their Robust Information-leakage Ordering* **(nomination for best paper award)**== ▪ Rohit Chadha, Dileep Kini and Mahesh Viswanathan.	TACAS / Room: Amphitheater *Decision procedures and their application in analysis II (chair: Erika Abraham)* ▪ Bernd Finkbeiner and Leander Tentrup. *Detecting Unrealizable Specifications of Distributed Systems* ▪ Arie Gurfinkel, Anton Belov and Joao Marques-Silva. *Synthesizing Safe Bit-Precise Invariants* ▪ Michael Huth and Jim Huan-Pu Kuo. *PEALT: An Automated Reasoning Tool for Numerical Aggregation of Trust Evidence*

	the Parallelisation of Probably Parallel Legacy Code (25mn) ▪ Martin Sulzmann and Pippijn van Steenhoven. *A Flexible and Efficient ML Lexer Tool based on Extended Regular Expression Submatching* (25mn) ▪ Alessandro Barenghi, Stefano Crespi Reghizzi, Dino Mandrioli, Federica Panella and Matteo Pradella. *The PAPAGENO parallel-parser generator* (Tool presentation, 15mn)	*Quantitative Information Flow in Boolean Programs* ▪ Mario S. Alvim, Fred B. Schneider and Andre Scedrov. *When not All Bits are Equal: Worth-based Information Flow* ▪ Florian Arnold, Holger Hermanns, Reza Pulungan and Marielle I A Stoelinga. *Time-Dependent Analysis of Attacks*	▪ Ruzica Piskac, Thomas Wies and Damien Zufferey. *GRASShopper: Complete Heap Verification with Mixed Specifications*
16h00 - 16h30	Coffee Break		
16h30 - 18h00	**CC** / Room: Mont Blanc *New Trends in Compilation* ▪ Magnus Madsen and Esben Andreasen. *String Analysis for Dynamic Field Access* (25mn) ▪ Rafael Auler, Edson Borin, Peli de Halleux, Michal Moskal and Nikolai Tillmann. *Addressing JavaScript JIT engines performance quirks: A crowdsourced adaptive compiler* (25mn) ▪ Thomas M. Prinz, Norbert Spieß and Wolfram Amme. A First Step Towards a Compiler for Business Processes (Tool presentation, 15mn) ▪ Martin Franz, Andreas Holzer, Stefan Katzenbeisser, Christian Schallhart and Helmut Veith. *CBMC-GC: An ANSI C Compiler for Secure Two-Party Computations* (Tool presentation, 15mn)	**POST** / Room: Makalu *Information Flow Control in Programming Languages (chair: Pierpaolo Degano)* ▪ Abhishek Bichhawat, Vineet Rajani, Deepak Garg and Christian Hammer. *Information Flow Control in WebKit's JavaScript Bytecode* ▪ David Costanzo and Zhong Shao. *A Separation Logic for Enforcing Declarative Information Flow Control Policies* ▪ Jed Liu and Andrew Myers. *Defining and Enforcing Referential Security*	**TACAS** / Room: Amphitheater *Complexity and termination analysis (chair: Lenore Zuck)* ▪ Marc Brockschmidt, Fabian Emmes, Stephan Falke, Carsten Fuhs and Jürgen Giesl. *Alternating Runtime and Size Complexity Analysis of Integer Programs* ▪ Hong-Yi Chen, Byron Cook, Carsten Fuhs, Kaustubh Nimkar and Peter O'Hearn. *Proving Nontermination via Safety* ▪ Jan Leike and Matthias Heizmann. *Ranking Function Templates for Linear Loops*
19h30 – 22h00	Reception at Musée de Grenoble		

Tuesday, April 8th, 2014

Tuesday, April 8th			
09h00 - 10h00	Room: Amphitheater **FASE Invited Speaker** (chair Arend Rensik) Christel Baier (Technical University of Dresden, Germany) *Probabilistic model checking and non-standard multi-objective reasoning*			
10h00 - 10h30	Coffee Break			
10h30 - 12h30	**ESOP** / Room: Mont Blanc *Type Systems (chair: Matthias Felleisen)* ▪ Justin Slepak, Olin Shivers and Panagiotis Manolios. *An Array-Oriented Language with Static Rank Polymorphism* **(nomination for best paper award)** ▪ Peter Thiemann and Luminous Fennell. *Gradual Typing for Annotated Type Systems* ▪ Boris Düdder, Moritz Martens and Jakob Rehof. *Staged Composition Synthesis* ▪ Jesper Cockx, Frank Piessens and Dominique Devriese. *Overlapping and Order-Independent Patterns*	**FASE** / Room: Kilimandjaro *Modelling and model transformation (chair: Reiko Heckel)* ▪ Alcino Cunha, Nuno Macedo and Tiago Guimarães. *Target oriented relational model finding* ▪ Perdita Stevens. *Bidirectionally tolerating inconsistency: partial transformations* **(nomination for best paper award)** ▪ Daniel Strueber, Julia Rubin, Gabriele Taentzer and Marsha Chechik. *Splitting Models Using Information Retrieval and Model Crawling Techniques* ▪ Uli Fahrenberg, Mathieu Acher, Axel Legay and Andrzej Wasowski. *Sound Merging and Differencing for Class Diagrams*	**FOSSACS** / Room: Makalu *Probabilistic systems (chair: Holger Hermanns)* ▪ Nathalie Bertrand, Eric Fabre, Stefan Haar, Serge Haddad and Loic Helouet. *Active diagnosis for probabilistic systems* ▪ Remi Bonnet, Stefan Kiefer and Anthony Widjaja Lin. *Analysis of Probabilistic Basic Parallel Processes* ▪ Laurent Doyen, Thierry Massart and Mahsa Shirmohammadi. *Limit Synchronization in Markov Decision Processes* ▪ Hongfei Fu. *Maximal Cost-Bounded Reachability Probability on Continuous-Time Markov Decision Processes*	**TACAS** / Room: Amphitheater *Modeling and model checking discrete systems (chair: Bernhard Steffen)* ▪ Thomas Gibson-Robinson, Philip Armstrong, Alexandre Boulgakov and A.W. Roscoe. *FDR3 - A Modern Refinement Checker for CSP* ▪ Gavin Lowe. *Concurrent Depth-First Search Algorithms* ▪ Jan Reineke and Stavros Tripakis. *Basic Problems in Multi-View Modeling* ▪ Anton Wijs and Dragan Bosnacki. *GPUexplore: Many-Core On-the-Fly State Space Exploration Using GPUs*
12h30 - 14h00	Lunch			
14h00 - 15h00	Room: Amphitheater **POST Invited Speaker** (chair: Martín Abadi) David Mazières (Stanford University, US) *Security and the Average Programmer*			
15h00 - 16h00	**ESOP** / Room: Mont Blanc *Verified Compilation (chair: Steve Zdancewic)* ▪ Lennart Beringer, Gordon Stewart, Robert Dockins and Andrew W. Appel. *Verified Compilation for Shared-Memory C* ▪ James T. Perconti and Amal Ahmed. *Verifying an Open Compiler Using Multi-*	**FASE** / Room: Kilimandjaro *Time and performance (chair: Christel Baier)* ▪ José Luiz Fiadeiro and Antonia Lopes. *Heterogeneous and Asynchronous Networks of Timed Systems* ▪ Matthias Kowal, Ina Schaefer and Mirco Tribastone. *Family-Based Performance Analysis of Variant-Rich Software Systems*	**FOSSACS** / Room: Makalu *Semantics of programming languages (chair: Simona Ronchi della Rocca)* ▪ Luca Padovani. *Type Reconstruction for the Linear pi-Calculus with Composite and Equi-Recursive Types* **(nomination for best paper award)** ▪ Alberto Carraro and Giulio Guerrieri. *A*	**POST** / Room: Cervin *Cryptography in Implementations (chair: Riccardo Focardi)* ▪ Ralf Kuesters, Enrico Scapin, Tomasz Truderung and Juergen Graf. *Extending and Applying a Framework for the Cryptographic Verification of Java Programs* ▪ Manuel Barbosa, David Castro and Paulo Silva. *Compiling CAO: from Cryptographic Specifications to C Implementations*

	Language Semantics		*semantical and operational account of call-by-value solvability*	
16h00 - 16h30	Coffee Break			
16h30 - 18h00	**ESOP** / Room: Mont Blanc *Program Verification I (chair: Xavier Leroy)* ▪ Kasper Svendsen and Lars Birkedal. *Impredicative Concurrent Abstract Predicates* ▪ Philippa Gardner, Gian Ntzik and Adam Wright. *Local Reasoning about File Systems* ▪ Véronique Benzaken, Evelyne Contejean and Stefania Dumbrava. *A Coq Formalization of the Relational Data Model*		**TUTORIAL** / Room: Makalu *(chair: Joost-Pieter Katoen)* Andrew D. Gordon (Microsoft Research and University of Edinburgh, UK) *Probabilistic Programming: what the Practical Programmer needs to know!*	**POST** / Room: Cervin *Policies and Attacks (chair: Andrew Myers)* ▪ Gilles Barthe, Boris Köpf, Laurent Mauborgne and Martin Ochoa. *Leakage Resilience against Concurrent Cache Attacks* **(nomination for best paper award)** ▪ Michael Clarkson, Bernd Finkbeiner, Masoud Koleini, Kristopher K. Micinski, Markus N. Rabe and Cesar Sanchez. *Temporal Logics for Hyperproperties* ▪ Petar Tsankov, Srdjan Marinovic, Mohammad Torabi Dashti and David Basin. *Decentralized Composite Access Control*

Wednesday, April 9th, 2014

	Wednesday, April 9th			
09h00 - 10h00	**Room: Amphitheater** **ETAPS Invited Speaker** Geoffrey Smith (Florida International University, US) *Operational Significance and Robustness in Quantitative Information Flow*			
10h00 - 10h30	Coffee Break			
10h30 - 12h30	**ESOP** / Room: Mont Blanc *Semantics (chair: Dan Ghica)* ▪ Raphaelle Crubille and Ugo Dal Lago. *On Probabilistic Applicative Bisimulation and Call-by-Value Lambda Calculi* ▪ Joaquin Aguado, Michael Mendler, Reinhard von Hanxleden and Insa Fuhrmann. *Grounding Synchronous Deterministic Concurrency in Sequential Programming* ▪ Paul Downen and Zena Ariola. *The Duality of Construction* ▪ Casper Bach Poulsen and Peter D. Mosses. *Deriving Pretty-Big-Step Semantics from Small-Step Semantics*	**FASE** / Room: Kilimandjaro *Static analysis (chair: Perdita Stevens)* ▪ Pietro Ferrara, Daniel Schweizer and Lucas Brutschy. *TouchCost: Cost Analysis of TouchDevelop Scripts* ▪ Rashmi Mudduluru and Murali Krishna Ramanathan. *Efficient Incremental Static Analysis Using Path Abstraction* ▪ Wei Huang, Yao Dong and Ana Milanova. *Type-based Taint Analysis of Java Web Applications* ▪ Alireza Sadeghi, Naeem Esfahani and Sam Malek. *Mining the Categorized Software Repositories to Improve the Analysis of Security Vulnerabilities*		**TACAS** / Room: Amphitheater *Timed and hybrid systems I (chair: Christel Baier)* ▪ Dieky Adzkiya, Bart De Schutter and Alessandro Abate. *Forward Reachability Computation for Autonomous Max-Plus-Linear Systems* ▪ Lacramioara Astefanoaei, Souha Ben Rayana, Saddek Bensalem, Marius Bozga and Jacques Combaz. *Compositional Invariant Generation for Timed Systems* ▪ Khalil Ghorbal and André Platzer. *Characterizing Algebraic Invariants by Differential Radical Invariants*
12h30 - 14h00	Lunch			
14h00 - 15h00	**Room: Amphitheater** **ESOP Invited Speaker** (chair: Zhong Shao) Maurice Herlihy (Brown University, US) *Why Concurrent Data Structures are Still Hard*			
15h00 - 16h00	**ESOP** / Room: Mont Blanc *Concurrency (chair: Paul-Andre Mellies)* ▪ Aleksandar Nanevski, Ruy Ley-Wild, Ilya Sergey and Germán Andrés Delbianco. *Communicating State Transition Systems for Fine-Grained Concurrent Resources* ▪ Oren Zomer, Guy Golan-Gueta, G. Ramalingam and	**FASE** / Room: Kilimandjaro *Scenario-based specification (chair: Ina Schaefer)* ▪ Dimitri Van Landuyt and Wouter Joosen. *Modularizing Early Architectural Assumptions in Scenario-based Requirements* ▪ Barak Cohen and Shahar Maoz. *Semantically*	**FOSSACS** / Room: Makalu *Networks (chair: Krishnendu Chatterjee)* ▪ Guy Avni, Orna Kupferman and Tami Tamir. *Network-Formation Games with Regular Objectives* ▪ Nathalie Bertrand, Paulin Fournier and Arnaud Sangnier. *Playing with probabilities in Reconfigurable*	**TACAS** / Room: Amphitheater *Timed and hybrid systems II (chair: Kim G. Larsen)* ▪ Christian Herrera, Bernd Westphal and Andreas Podelski. *Quasi-equal Clock Reduction: More Networks, More Queries* ▪ Ting Wang, Jun Sun, Yang Liu, Xinyu Wang and Shanping Li. *Are Timed Automata Bad for a Specification Language? Language Inclusion Checking for Timed Automata*

	Mooly Sagiv. *Checking Linearizability of Encapsulated Extended Operations*	*Configurable Analysis of Scenario-Based Specifications*	*Broadcast Networks*	
16h00 - 16h30	Coffee Break			
16h30 - 18h00	**ESOP** / Room: Mont Blanc *Linear Types (chair: Zhong Shao)* ▪ Dan Ghica and Alex I. Smith. *Bounded Linear Types with Generalised Resources* ▪ Aloïs Brunel, Marco Gaboardi, Damiano Mazza and Steve Zdancewic. *A Core Quantitative Coeffect Calculus* ▪ Akira Yoshimizu, Ichiro Hasuo, Claudia Faggian and Ugo Dal Lago. *Measurements in Proof Nets as Higher-Order Quantum Circuits*	**FASE** / Room: Kilimandjaro *Software verification (chair: Antonia Lopes)* ▪ Paolo Masci, Yi Zhang, Paul Jones, Paul Curzon and Harold Thimbleby. *Software verification for medical device user interfaces in PVS* ▪ Pedro Gomes, Attilio Picoco and Dilian Gurov. *Sound Control Flow Graph Extraction from Incomplete Java Bytecode Programs* ▪ Marina Zaharieva-Stojanovski and Marieke Huisman. *Verifying Class Invariants in Concurrent Programs*	**FOSSACS** / Room: Makalu *Program analysis (chair: Paul-André Melliès)* ▪ <mark>Naoki Kobayashi, Kazuhiro Inaba and Takeshi Tsukada. *Unsafe Order-2 Tree Languages are Context-Sensitive* **(nomination for best paper award)**</mark> ▪ Andrzej Murawski and Nikos Tzevelekos. *Game semantics for nominal exceptions* ▪ Takeshi Tsukada and Naoki Kobayashi. *Complexity of Model-Checking Call-by-Value Programs*	**TACAS** / Room: Amphitheater *Monitoring, fault detection and identification (chair: Klaus Havelund)* ▪ <mark>Marco Bozzano, Alessandro Cimatti, Marco Gario and Stefano Tonetta. *Formal design of Fault Detection and Identification components with Temporal Epistemic Logic* **(nomination for best paper award)**</mark> ▪ Normann Decker, Martin Leucker and Daniel Thoma. *Monitoring Modulo Theories* ▪ Thomas Reinbacher, Kristin Yvonne Rozier and Johann Schumann. *Temporal-Logic Based Runtime Observer Pairs for System Health Mangement of Real-Time Systems*
20h00 - 23h00	Dinner at Château de Sassenage			

Thursday, April 10th, 2014

	Thursday, April 10th
09h00 - 10h00	**Room: Amphitheater** **ETAPS Invited Speaker** John Launchbury (Galois, US) *Practical Challenges to Secure Computation*
10h00 - 10h30	Coffee Break

	ESOP / Room: Mont Blanc *Program Verification II (chair: Lennart Beringer)*		**FOSSACS** / Room: Makalu *Games and synthesis (chair: Bernd Finkbeiner)*	**TACAS** / Room: Amphitheater *Competition on software verification (chair: Dirk Beyer)*
10h30 - 12h30	▪ Takuya Kuwahara, Tachio Terauchi, Hiroshi Unno and Naoki Kobayashi. *Automatic Termination Verification for Higher-Order Functional Programs* ▪ Caterina Urban and Antoine Miné. *An Abstract Domain to Infer Ordinal-Valued Ranking Functions* ▪ Martin Brain, Cristina David, Daniel Kroening and Peter Schrammel. *Model and Proof Generation for Heap-Manipulating Programs* ▪ João Matos, João Garcia and Paolo Romano. *REAP: Reporting Errors Using Alternative Path*		▪ Martin Lang. *Resource Reachability Games on Pushdown Graphs* ▪ Krishnendu Chatterjee, Laurent Doyen, Hugo Gimbert and Youssouf Oualhadj. *Perfect-Information Stochastic Mean-Payoff Parity Games* ▪ Shaull Almagor and Orna Kupferman. *Latticed-LTL Synthesis in the Presence of Noisy Inputs* ▪ Krishnendu Chatterjee, Laurent Doyen, Sumit Nain and Moshe Y. Vardi. *The Complexity of Partial-observation Stochastic Parity Games With Finite-memory Strategies*	▪ *Status Report on Software Verification.* Dirk Beyer ▪ *BLAST 2.7.2.* Pavel Shved, Mikhail Mandrykin, and Vadim Mutilin ▪ *CBMC.* Daniel Kröning and Michael Tautschnig ▪ *CPAchecker.* Stefan Löwe, Mikhail Mandrykin, and Philipp Wendler ▪ *CPAlien.* Petr Muller and Tomas Vojnar ▪ *CSeq-Lazy.* Omar Inverso, Ermenegildo Tomasco, Bernd Fischer, Salvatore La Torre, and Gennaro Parlato ▪ *CSeq-MU.* Ermenegildo Tomasco, Omar Inverso, Bernd Fischer, Salvatore La Torre, and Gennaro Parlato ▪ *ESBMC 1.22.* Jeremy Morse, Mikhail Ramalho, Lucas Cordeiro, Denis Nicole, and Bernd Fischer ▪ *FrankenBit.* Arie Gurfinkel and Anton Belov ▪ *LLBMC.* Stephan Falke, Florian Merz, and Carsten Sinz ▪ *Predator.* Kamil Dudka, Petr Peringer, and Tomas Vojnar ▪ *Symbiotic 2.* Jiri Slaby and Jan Strejcek ▪ *Threader.* Corneliu Popeea and Andrey Rybalchenko ▪ *UFO.* Aws Albarghouthi and Arie Gurfinkel ▪ *Ultimate Automizer.* Matthias Heizmann, Jürgen Christ, Daniel Dietsch, Jochen Hoenicke, Markus Lindenmann, Betim Musa, Christian Schilling, Stefan Wissert, and Andreas Podelski ▪ *Ultimate Kojak.* Evren Ermis, Alexander Nutz, Daniel Dietsch, Jochen Hoenicke, and Andreas Podelski
12h30 -	Lunch

14h00	

14h00 - 15h00	Room: Amphitheater **TACAS Invited Speaker** Orna Kupferman (Hebrew University Jerusalem, Israel) *Variations on Safety*

	ESOP / Room: Mont Blanc	FASE / Room: Kilimandjaro	FOSSACS / Room: Makalu	TACAS / Room: Amphitheater
15h00 - 16h00	*Network and Process Calculi (chair: Philippa Gardner)* ▪ Tony Garnock-Jones, Sam Tobin-Hochstadt and Matthias Felleisen. *The Network as a Language Construct* ▪ Laura Bocchi, Hernan Melgratti and Emilio Tuosto. *Resolving Non-determinism in Choreographies*	*Analysis and repair (chair: Marieke Huisman)* ▪ Yu Pei, Carlo Furia, Martin Nordio and Bertrand Meyer. *Automatic Program Repair by Fixing Contracts* ▪ Shahram Esmaeilsabzali, Rupak Majumdar, Thomas Wies and Damien Zufferey. *Dynamic Package Interfaces*	*Compositional reasoning (chair: Anca Muscholl)* ▪ Javier Esparza and Jörg Desel. *On Negotiation as Concurrency Primitive II: Deterministic Cyclic Negotiations* ▪ Serdar Erbatur, Deepak Kapur, Andrew M. Marshall, Catherine Meadows, Paliath Narendran and Christophe Ringeissen. *On Asymmetric Unification and the Combination Problem in Disjoint Theories*	*Specifying and checking linear time properties (chair: Joost-Pieter Katoen)* ▪ Shaull Almagor, Udi Boker and Orna Kupferman. *Discounting in LTL* ▪ Ala Eddine Ben Salem, Alexandre Duret-Lutz, Fabrice Kordon and Yann Thierry-Mieg. *Symbolic Model Checking of Stutter-Invariant Properties Using Generalized Testing Automata*

16h00 - 16h30	Coffee Break

	ESOP / Room: Mont Blanc	FASE / Room: Kilimandjaro	TUTORIAL / Room: Makalu	TACAS / Room: Amphitheater
16h30 - 18h00	*Program Analysis (chair: Naoki Kobayashi)* ▪ Ravi Mangal, Mayur Naik and Hongseok Yang. *A Correspondence between Two Approaches to Interprocedural Analysis in the Presence of Join* **(nomination for best paper award)** ▪ Zhoulai Fu. *Targeted update -- Aggressive Memory Abstraction Beyond Common Sense and its Application on Static Numeric Analysis* ▪ Aparna Kotha, Kapil Anand, Timothy Creech, Khaled Elwazeer, Matthew Smithson and Rajeev Barua. *Affine Parallelization of Loops with Run-time Dependent Bounds from Binaries*	*Verification and validation (chair: Stefania Gnesi)* ▪ Marcello Maria Bersani, Domenico Bianculli, Carlo Ghezzi, Srdjan Krstic and Pierluigi San Pietro. *SMT-based Checking of SOLOIST over Sparse Traces* **(nomination for best paper award)** ▪ Luc Moreau, Trung D. Huynh and Danius Michaelides. *An Online Validator for Provenance: Algorithmic Design, Testing, and API* ▪ Meriem Ouederni, Gwen Salaun, Javier Camara and Ernesto Pimentel. *Comparator: A Tool for Quantifying Behavioural Compatibility (tool paper)*	*(chair: Lenore Zuck)* Bernd Finkbeiner (University of Saarland, Germany) *Synthesizing reactive components and systems*	*Synthesis and learning (chair: Rance Cleaveland)* ▪ Xiaowei Huang and Ron van der Meyden. *Symbolic Synthesis for Epistemic Specifications with Observational Semantics* ▪ Wenchao Li, Dorsa Sadigh, S. Shankar Sastry and Sanjit A. Seshia. *Synthesis for Human-in-the-Loop Control Systems* ▪ Oded Maler and Irini Eleftheria Mens. *Learning Regular Languages over Large Alphabets*

18h15 - 20h15	ETAPS Steering Committee Meeting

20h30 - 23h00	ETAPS Steering Committee Dinner

Friday, April 11th, 2014

09h00 - 10h00	Room: Amphitheater **FOSSACS Invited Speaker** Petr Jancar (Technical Univ of Ostrava, Czech Republic) *Equivalences of Pushdown Systems are Hard*
10h00 - 10h30	Coffee Break

10h30 - 12h30	**FASE** / Room: Kilimandjaro *Graph transformation (chair: Gabriele Taenzer)* ▪ Dominique Duval, Rachid Echahed, Frederic Prost and Leila Ribeiro. *Transformation of Attributed Structures with Cloning* ▪ Christian Krause, Matthias Tichy and Holger Giese. *Implementing Graph Transformations in the Bulk Synchronous Parallel Model* ▪ Anthony Anjorin, Karsten Saller, Malte Lochau and Andy Schürr. *Modularizing Triple Graph Grammars using Rule Refinement* ▪ Michael Löwe, Harald König and Christoph Schulz. *Polymorphic Single-Pushout Graph Transformation*	**FOSSACS** / Room: Makalu *Bisimulation (chair: Philippe Schnoebelen)* ▪ Pedro R. D'Argenio, Daniel Gebler and Matias David Lee. *Axiomatizing Bisimulation Equivalences and Metrics from Probabilistic SOS Rules* ▪ James Ferlez, Rance Cleaveland and Steve Marcus. *Generalized Synchronization Trees* ▪ Vasileios Koutavas, Carlo Spaccasassi and Matthew Hennessy. *Bisimulations for Communicating Transactions (Extended Abstract)* ▪ Matteo Mio. *Upper-Expectation Bisimilarity and Lukasiewicz mu-Calculus*	**TACAS** / Room: Amphitheater *Probabilistic and quantum systems (chair: Nathalie Bertrand)* ▪ Ebrahim Ardeshir-Larijani, Simon Gay and Rajagopal Nagarajan. *Verification of Concurrent Quantum Protocols by Equivalence Checking* ▪ Christel Baier, Joachim Klein, Sascha Klueppelholz and Steffen Märcker. *Computing Conditional Probabilities in Markovian Models Efficiently* **(nomination for best paper award)** ▪ Klaus Dräger, Vojtech Forejt, Marta Kwiatkowska, David Parker and Mateusz Ujma. *Permissive Controller Synthesis for Probabilistic Systems* ▪ Sadegh Esmaeil Zadeh Soudjani and Alessandro Abate. *Precise Approximations of the Probability Distribution of a Markov Process in Time: an Application to Probabilistic Invariance*
12h30 - 14h00	Lunch		

14h00 - 16h00	**FASE** / Room: Kilimandjaro *Debugging and testing (chair: Axel Legay)* ▪ Elena Giachino, Ivan Lanese and Claudio Antares Mezzina. *Causal-consistent Reversible Debugging* ▪ Josef Svenningsson, Hans Svensson, Nicholas Smallbone, Thomas Arts, Ulf Norell and John Hughes. *An Expressive Semantics of Mocking* ▪ Maximiliano Cristia, Joaquin Mesuro and Claudia Frydman. *Integration Testing in the Test Template Framework* ▪ Ana Cavalcanti and	**FOSSACS** / Room: Makalu *Categorical and algebraic models (chair: Shin-ya Katsumata)* ▪ Filippo Bonchi, Pawel Sobocinski and Fabio Zanasi. *Interacting Bialgebras are Frobenius* ▪ Robert Myers, Jiri Adamek, Stefan Milius and Henning Urbat. *Generalized Eilenberg Theorem I: Local Varieties of Languages* ▪ Jurriaan Rot and Marcello Bonsangue. *Combining Bialgebraic Semantics and Equations* ▪ Guillaume Munch-Maccagnoni. *Models of a Non-Associative Composition*	**TACAS** / Room: Amphitheater *Tool demonstrations (chair: Saddek Bensalem)* ▪ Elvira Albert, Puri Arenas, Antonio Flores-Montoya, Samir Genaim, Miguel Gomez-Zamalloa, Enrique Martin-Martin, German Puebla and Guillermo Román-Díez. SACO: *Static Analyzer for Concurrent Objects* ▪ Emanuele De Angelis, Fabio Fioravanti, Alberto Pettorossi and Maurizio Proietti. *VeriMAP: A Tool for Verifying Programs through Transformations* ▪ Bert van Beek, Wan Fokkink, Dennis Hendriks, Albert Hofkamp, Jasen Markovski, Asia van de Mortel-Fronczak and Michel Reniers. *CIF 3: Model-based Engineering of Supervisory Controllers* ▪ Rafael Caballero, Enrique Martin-Martin, Adrian Riesco and Salvador Tamarit. *EDD: A Declarative Debugger for Sequential Erlang Programs* ▪ Vincent Cheval. *APTE: an Algorithm for Proving Trace Equivalence* ▪ Arnd Hartmanns and Holger Hermanns. *The*

	Marie-Claude Gaudel. *Data-flow coverage for Circus-based testing*		*Modest Toolset: An Integrated Environment for Quantitative Modelling and Verification* ▪ Antti Siirtola. *Bounds2: A Tool for Compositional Multi-Parametrised Verification*
16h00 - 16h30	Coffee Break		
16h30 - 18h00		**FOSSACS** / Room: Makalu *Logics of programming (chair: Anca Muscholl)* ▪ Timos Antonopoulos, Nikos Gorogiannis, Christoph Haase, Max Kanovich and Joel Ouaknine. *Foundations for Decision Problems in Separation Logic with General Inductive Predicates* ▪ Corina Cirstea. *A Coalgebraic Approach to Linear-Time Logics* ▪ Till Mossakowski and Andrzej Tarlecki. *A relatively complete calculus for structured heterogeneous specifications*	**TACAS** / Room: Amphitheater *Case studies (chair: Ylies Falcone)* ▪ Jaap Boender and Claudio Sacerdoti Coen. *On the Correctness of a Branch Displacement Algorithm* ▪ Christian Von Essen and Dimitra Giannakopoulou. *Analyzing the Next Generation Airborne Collision Avoidance System* **(nomination for best paper award)** ▪ Erwan Jahier, Simplice Djoko-Djoko, Eric Lafont and Chaouki Maiza. *Environment-Model Based Testing of Control Systems: Case Studies*

Post-Conference Satellite Workshops: Programme

Saturday, April 12th, 2014

		Saturday, April 12th
09h00 - 10h30	**CASSTING** Room: **F112**	▪ Nicolas Gast. *Efficiency and Prices in Real-Time Electricity Markets* (**invited talk**)
	FESCA Room: **F309**	▪ Colin Atkinson (University of Mannheim). *Facilitating Formal Views in View-Driven (Orthographic) Software Engineering* (**invited talk**)
	GALOP Room: **F018**	▪ Glynn Winskel. *TBA* (**invited talk**)
	GRAMSEC Room: **F114**	▪ Erlend Andreas Gjære and Per Håkon Meland. *Threats Management Throughout the Software Service Life-cycle* ▪ Ludovic Apvrille and Yves Roudier. *Towards the Model-Driven Engineering of Secure yet Safe Embedded Systems* ▪ Stéphane Paul. *Towards Automating the Construction & Maintenance of Attack Trees: a Feasibility Study*
	HAS Room: **F116**	▪ Thao Dang. *TBA* (**invited talk**) ▪ Yi Deng and Agung Julius. *Safe Neighborhood Computation for Hybrid System Verification*
	MSFP Room: **F320**	▪ Bob Atkey. *Applications of Relational Parametricity beyond Type Abstraction* (**invited talk**) ▪ Paolo Capriotti and Ambrus Kaposi. *Free applicative functors*
	PLACES Room: **F316**	▪ Dimitris Mostrous. *Multiparty Sessions based on Proof Nets* ▪ Sam Lindley and J. Garrett Morris. *Sessions as Propositions* ▪ Francesco Tiezzi and Nobuko Yoshida. *Towards Reversible Sessions*
	QAPL Room: **F022**	▪ Oded Maler. *Timed Systems: The Unmet Challenge* (**invited talk**)
10h30 - 11h00		Coffee Break
11h00 - 12h30	**CASSTING** Room: **F112**	▪ Gilles Geeraerts, Joël Goossens, Amélie Stainer. *Efficient computation of succinct strategies, with applications to real-time scheduler synthesis* ▪ Youssouf Oualhadj, Pierre-Alain Reynier, Ocan Sankur. *Robust Strategies in Timed Games* ▪ Benjamin Monmege, Thomas Brihaye, Gilles Geeraerts, Shankara Narayanan Krishna, Lakshmi Manasa, Ashutosh Trivedi. *Weighted Timed Games: Positive Results with Negative Costs*
	FESCA Room: **F309**	▪ Mounira Kezadri, Benoit Combemale, Marc Pantel and Xavier Thirioux. *Correct-by-construction model composition: Application to the Invasive Software Composition method* ▪ Faiz Ul Muram, Huy Tran and Uwe Zdun. *Automated Mapping of UML Activity Diagrams to Formal Specifications for Supporting Containment Checking* ▪ Fenglin Han, Jan Blech, Peter Herrmann and Heinz Schmidt. *Towards Verifying Safety Properties of Real-Time Probabilistic Systems* ▪ Luciana Santos, Valdivino Santiago Júnior and Nandamudi Vijaykumar. *Transformation of UML Behavioral Diagrams to Support Software Model Checking*
	GALOP Room: **F018**	▪ Clovis Eberhart, Tom Hirschowitz and Thomas Seiler. *Fully Abstract Concurrent Games for Pi* ▪ Pierre Clairambault. *Concurrent Hyland-Ong Games*
	GRAMSEC Room: **F114**	▪ Ketil Stølen. *Graphical Models for Security: Overview, Challenges, and Recommendations* (**invited talk**)
	HAS Room: **F116**	▪ Olaf Stursberg. *TBA* (**invited talk**) ▪ John Leth, Rafael Wisniewski, Jakob Rasmussen and Henrik Schioler. *Stochastic Analysis of Synchronization in a Supermarket Refrigeration System*
	MSFP Room: **F320**	▪ Jules Hedges. *Monad transformers for backtracking search* ▪ Andreas Abel and James Chapman. *Normalization by evaluation in the delay monad* ▪ Tarmo Uustalu. *Coherence for skew-monoidal categories*
	PLACES Room: **F316**	▪ Dimitrios Kouzapas, Ramunas Gutkovas and Simon Gay. *Session Types for Broadcasting* ▪ Rumyana Neykova and Nobuko Yoshida. *Multiparty Session Actors* ▪ Tzu-Chun Chen. *Lightening Global Types*
	QAPL	▪ Diego Latella, Michele Loreti, Mieke Massink, and Valerio Senni. *Stochastically timed*

	Room: **F022**	*predicate-based communication primitives for autonomic computing* ▪ Marino Miculan and Marco Peressotti. *GSOS for non-deterministic processes with quantitative aspects* ▪ Max Tschaikowski and Mirco Tribastone. *Extended Differential Aggregations in Process Algebra for Performance and Biology*
12h30 - 14h00	Lunch	
14h00 - 16h00	**CASSTING** Room: **F112**	▪ John Fearnley. *Finding Nash equilibria in bimatrix games* (***invited talk***) ▪ Patricia Bouyer, Thomas Brihaye, Quentin Hautem, Nicolas Markey. *k-fault tolerant Nash equilibria* ▪ Véronique Bruyère, Noémie Meunier, Jean-François Raskin. *Secure Equilibria in Weighted Games*
	FESCA Room: **F309**	▪ Colin Atkinson (University of Mannheim). *Orthographic and Deep Modeling with Melanee* (***tutorial***) ▪ Arnaud Lanoix and Olga Kouchnarenko. *Component Substitution through Dynamic Reconfigurations* ▪ Rui Couto, António Nestor Ribeiro and José Creissac Campos. *Application of Ontologies in Identifying Requirements Patterns in Use Cases* ▪ Wei Bai, Emmanuel Tadjouddine and Yu Guo. *Enabling Automatic Certification of Online Auctions*
	GALOP Room: **F018**	▪ Tomás Kroupa. *TBA* (***invited talk***) ▪ Hugo Férée. *A Game Semantics Approach to Complexity*
	GRAMSEC Room: **F114**	▪ Thomas Bauereiss and Dieter Hutter. *Possibilistic Information Flow Control for Workflow Management Systems* ▪ Cristian Prisacariu. *Actor Network Procedures as Psi-calculi for Security Ceremonies* ▪ Aitor Couce Vieira, Siv Hilde Houmb, and David Rios Insua. *A Graphical Adversarial Risk Analysis Model for Oil and Gas Drilling Cybersecurity*
	HAS Room: **F116**	▪ Anders P. Ravn. *TBA* (***invited talk***) ▪ Aneel Tanwani. *On Asymptotic Stabilization of Linear Systems with Event-triggered Output Feedback and Quantized Measurements* ▪ Takumi Akazaki, Ichiro Hasuo and Kohei Suenaga. *Input Synthesis for Sampled Data Systems by Program Logic*
	MSFP Room: **F320**	▪ Shin-ya Katsumata (Kyoto University). *Logical Relations for Monads by Categorical TT-Lifting* (***invited talk***) ▪ Michael Hicks, Gavin Bierman, Nataliya Guts, Daan Leijen and Nikhil Swamy. *Polymonadic programming* ▪ Daan Leijen. *Koka: Programming with Row-polymorphic Effect Types*
	PLACES Room: **F316**	▪ Akash Lal (Microsoft Research India). *Finding Concurrency Bugs Under Imprecise Harnesses* (***invited talk***) ▪ Stefan Blom, Saeed Darabi and Marieke Huisman. *Verifying Parallel Loops with Separation Logic* ▪ Janwillem Swalens, Stefan Marr, Joeri De Koster and Tom Van Cutsem. *Towards Composable Concurrency Abstractions*
	QAPL Room: **F022**	▪ Stephen Gilmore. *Quantitative Aspects of Public Transport* (***invited talk***) ▪ Michele Pagani. *A Bird's Eye View on the Quantitative Semantics of Linear Logic* ▪ Herbert Wiklicky. *Quantitative Aspects in Program Synthesis* ▪ Lili Xu, Konstantinos Chatzikokolakis, and Catuscia Palamidessi. *A Multiplicative Variant of the Kantorovich distance for Differential Privacy*
16h00 - 16h30	Coffee Break	

16h30 - 18h00	**CASSTING** Room: **F112**	▪ Milka Hutagalung, Martin Lange, Étienne Lozes. *Buffered Simulation Games for Büchi Automata* ▪ Dietmar Berwanger, Marie van den Bogaard. *Distributed synthesis with delayed signals*
	FESCA Room: **F309**	▪ Antinisca Di Marco and Catia Trubiani. *A model-driven approach to broaden the detection of software performance antipatterns at runtime* ▪ Stefan Stattelmann, Manuel Oriol and Thomas Gamer. *Execution Time Analysis for Industrial Control Applications* ▪ Christian Colombo and Gordon Pace. *Comprehensive Monitor-Oriented Compensation Programming*
	GALOP Room: **F018**	▪ Andrzej Murawski and Nikos Tzevelekos. *Game Semantics for Interface Middleweight Java* ▪ Alexis Goyet. *Building Simple Languages with the Power of References*
	GRAMSEC Room: **F114**	▪ Panel. *Open questions in graphical security modeling*
	HAS Room: **F116**	▪ Martin Nilsson Jacobi. *TBA (**invited talk**)* ▪ Luminita Cristiana Totu and Rafael Wisniewski. *On modeling populations of switched diffusions with discrete dynamics consisting of both spontaneous and forced terms*
	MSFP Room: **F320**	▪ Wolfgang Jeltsch. *Categorical Semantics for Functional Reactive Programming with Temporal Recursion and Corecursion* ▪ Baltasar Trancón Y Widemann and Markus Lepper. *Foundations of Total Functional Data-Flow Programming*
	PLACES Room: **F316**	▪ Mariangiola Dezani-Ciancaglini, Luca Padovani and Jovanka Pantovic. *Session Type Isomorphisms*
	QAPL Room: **F022**	▪ Bettina Braitling, Luis María Ferrer Fioriti, Hassan Hatefi, Ralf Wimmer, Bernd Becker, and Holger Hermanns. *MeGARA: Menu-based Game Abstraction and Abstraction Refinement of Markov Automata* ▪ Dennis Guck, Mark Timmer, and Stefan Blom. *Extending Markov Automata with State and Action Rewards* ▪ Giulio Iacobelli, Mirco Tribastone, and Andrea Vandin. *Differential Ordinary Lumpability in Markovian Process Algebra* ▪ Daniel Gebler. *Compositional metric reasoning with Probabilistic Process Calculi*
20h00 - 23h00	Dinner at Restaurant Le Chasse-Spleen	

Sunday, March 13th, 2014

	Sunday, April 13th	
09h00 - 10h30	**GALOP** Room: **F018**	▪ Ulrich Schöpp. *TBA (**invited talk**)* ▪ Paul Blain Levy and Sam Staton. *Compositionality for Transition Systems Over Games*
	QAPL Room: **F022**	▪ Enrico Vicario. *Quantitative evaluation of concurrent systems with non-Markovian temporal parameters (**invited talk**)* ▪ Clemens Dubslaff, Sascha Kluppeholz, Christel Baier. *Probabilistic Software Product Line Model Checking*
10h30 - 11h00	Coffee Break	
11h00 - 12h30	**GALOP** Room: **F018**	▪ Michele Basaldella. *An interactive semantics for classical arithmetic* ▪ Rodolphe Lepigre. *Realizability, Testing and Game Semantics*
	QAPL Room: **F022**	▪ Cheng Feng. *Patch-based Hybrid Modelling of Spatially Distributed Systems by Using Stochastic HYPE - ZebraNet as an Example* ▪ Jean-Francois Kempf, Olivier Lebeltel, and Oded Maler. *Formal and Informal Methods for Multi-Core Design Space Exploration* ▪ David Spieler, Ernst Moritz Hahn, and Lijun Zhang. *Model Checking CSL for Markov Population Models*
12h30 - 14h00	Lunch	
14h00 - 16h00	**GALOP** Room: **F018**	▪ Eugenia Sironi. *Type Theory in Ludics* ▪ Naohiko Haoshiko, Koko Muroya and Ichiro Hasuo. *Memoryful Geometry of Interaction: From Coalgebraic Components to Algebraic Effects*
	QAPL Room: **F022**	▪ Nicolas Markey. *Robustness issues in timed automata (**invited talk**)* ▪ Tomasz Kloda, Bruno d'Ausbourg, and Luca Santinelli. *Towards a More Flexible Timing Definition Language* ▪ Alexander Andreychenko, Linar Mikeev, and Verena Wolf. *Moment closure approximation and distribution reconstruction for Markov Population Models* ▪ Eugene Asarin, Michel Blockelet, Aldric Degorre, Catalin Dima, and Chunyan Mu. *Entropy model checking*
16h00 - 16h30	Coffee Break	
16h30 - 18h00	**QAPL** Room: **F022**	▪ Jonathan M. Smith, Neil J. Ross, Peter Selinger, and Benoit Valiron. *Quipper: Concrete Resource Estimation in Quantum Algorithms* ▪ Alessandra Di Pierro and Federica Panarotto. *A Calculus for Topological Quantum Computation*

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