

Read before continuing with the rest!

If you are here now in Madrid it is only because the work of a great number of people that has participated in the organization of all the events co-located in our great meeting "Madrid meet 2015". Along the following pages you will find the names specifically participating in the organization of each of those events, so that please let us concentrate here in the set of "local" organizers composed as follows:

Dario Della Monica (Reykjavik Univ.)

Ignacio Fábregas (Reykjavik Univ.)

Carlos Gregorio Rodríguez (UCM)

María Martos-Salgado (UCM)

Jaime Mendizábal Roche (UCM)

Yolanda Ortega-Mallén (UCM)

Miguel Palomino (UCM)

Ismael Rodríguez (UCM)

David Romero Hernández (UCM)

Fernando Rosa-Velardo (UCM)

Gustavo Santos-García (Univ. Salamanca)

Probably, you will be a bit surprised of seeing two people from Iceland at the top of the list: they are indeed local organizers thanks to their participation in our joint NILS Science and Sustainability Program that has been one of the main supporters of this meet(ing).

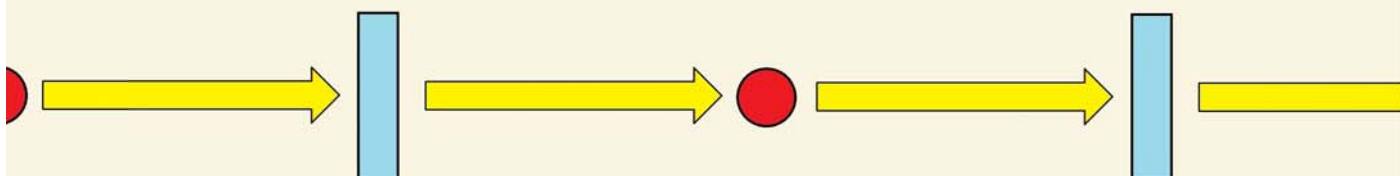
Let me also underline the participation of Gustavo, our man in Salamanca, siege of one of the most ancient universities in Spain, that has been our webmaster, making a great work that we hope you had noticed and appreciated.

And finally, my thanks to Luca Aceto, the responsible of our project at Reykjavik University, that also accepted the role of supervisor of our organization team. But if anything fails, look for me, even if you can be sure that as the rest of our team I have made my best to look for the success of Madrid meet 2015.

And now you can already proceed looking for the data of the event(s) in which you are interested.

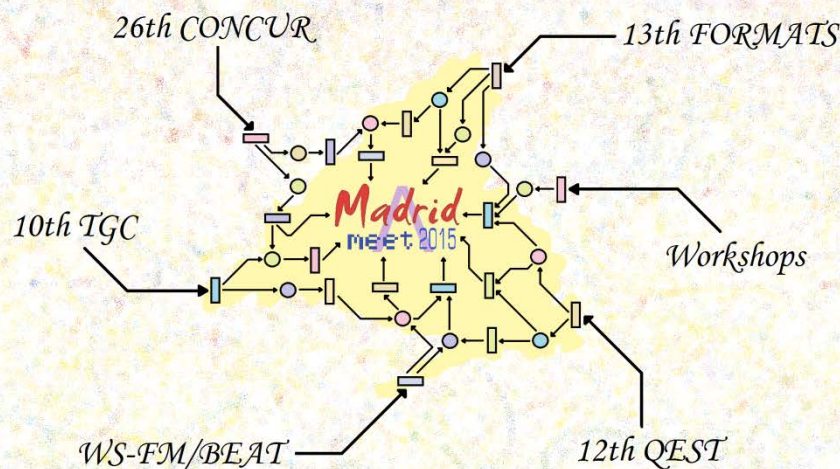
Enjoy the science, enjoy our meeting, enjoy Madrid!

David de Frutos





Madrid meet 2015



CONCUR 2015, the 26th Int. Conf. on Concurrency Theory
QEST 2015, the 12th Int. Conf. on Quantitative Evaluation of Systems
FORMATS 2015, the 13th Int. Conf. on Formal Modeling and Analysis of Timed Systems
TGC 2015, the 10th Int. Symp. on Trustworthy Global Computing
WS-FM/BEAT 2015, the Int. Symp. on Web Services, Formal Methods and Behavioural Types
EPEW 2015, the 12th European Workshop on Performance Engineering
EXPRESS/SOS 2015, 22nd Int. Workshop on Expressiveness in Concurrency and
 12th Workshop on Structured Operational Semantics
PV 2015, 2nd Int. Workshop on Parameterized Verification
FOCLASA 2015, the 14th Int. Work. on Foundations of Coord. Languages and Self-Adaptation
HSB 2015, the 4th Int. Workshop of Hybrid Systems and Biology
TRENDS 2015, the 4th IFIP WG 1.8 Work. on Trends in Concurrency Theory
YR-CONCUR 2015: the Young Researchers Work. on Concurrency Theory

Rooms for the Conferences and Workshops

CONCUR	Aula Miguel de Guzmán (left on the basement)
QEST / FORMATS	S116 (left on the basement)
FORMATS (parallel sessions)	B08B (right on the ground floor)
EPEW	Monday morning sessions: Aulario Fac. Químicas QC02 (left on the ground floor) Rest of the sessions: B08A (right on the ground floor)
EXPRESS / SOS	Monday morning sessions: Aulario Fac. Químicas QC04 (right on the ground floor) Rest of the sessions: B08B (right on the ground floor)
TGC	102 (right on the first floor)
WS-FM/BEAT & FOCLASA	103 (right on the first floor)
PV	B08A (right on the ground floor)
HSB	B08B (right on the ground floor)
TRENDS & YR-CONCUR	102 (right on the first floor)

All the rooms are at the Facultad de Matemáticas, apart from those for the Monday Morning Sessions, which will be held at the “Aulario” of the Facultad de Químicas.



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Dear colleagues,

After 25 years, CONCUR arrives in Spain for the first time, being held in Madrid, its capital city. Certainly, it is not only CONCUR that we celebrate these days: up to 12 different events will take place together during the week, and this is why we have called this big meeting "Madrid meet 2015". Let me just to enumerate here the full list of acronyms: CONCUR, QEST, FORMATS, TGC, WS-FM/BEAT, EPEW, EXPRESS/SOS, PV, TRENDS, HSB, FOCLASA and Young CONCUR.

All these will give us the opportunity to attend more than 150 regular talks, plus about 20 invited talks, offered by researchers coming from all over the world, to a full audience of about 250 people. As stated above, CONCUR has been the core around which the meeting has grown, and I want to thank sincerely here its Steering Committee, led by Jos Baeten, who put its trust in us in order to organize this 26th edition of the Conference. We hope that we will justify their confidence in us and that we will have again a great edition of the Conference and all the other events co-located with it.

We thank all the Scientific Chairs of these events, and their Steering Committees when applicable, that asked for the celebration of their meetings in Madrid, contributing in this way to the growth of our joint event. For sure, I have to highlight here the work by Luca Aceto, that accepted to chair CONCUR 2015 with me: for sure, our (expected!) success would have not reached without his efforts and enormous dedication to the task. And please, excuse me for not mentioning everyone, mainly because this would give us a very long list, but again be sure that without their collaboration we could not have organized all these events as part of the Madrid meet.

It is a pity that our overloaded calendars will not allow most of you to extend your stay in Spain, especially if you have not yet had the opportunity to know the country. However, despite our heavy schedules during these conference days, I hope that you will be exposed to the beauty and friendly atmosphere of our country, so that, in case you don't have time to do so now, you will be attracted to come back to enjoy Madrid and Spain in a more relaxed way.

Finally, let us work together, have fun together, and let us contribute to the growth of the young generations coming to our meetings for the first time, since they will be the ones that will hopefully preserve them in the future.



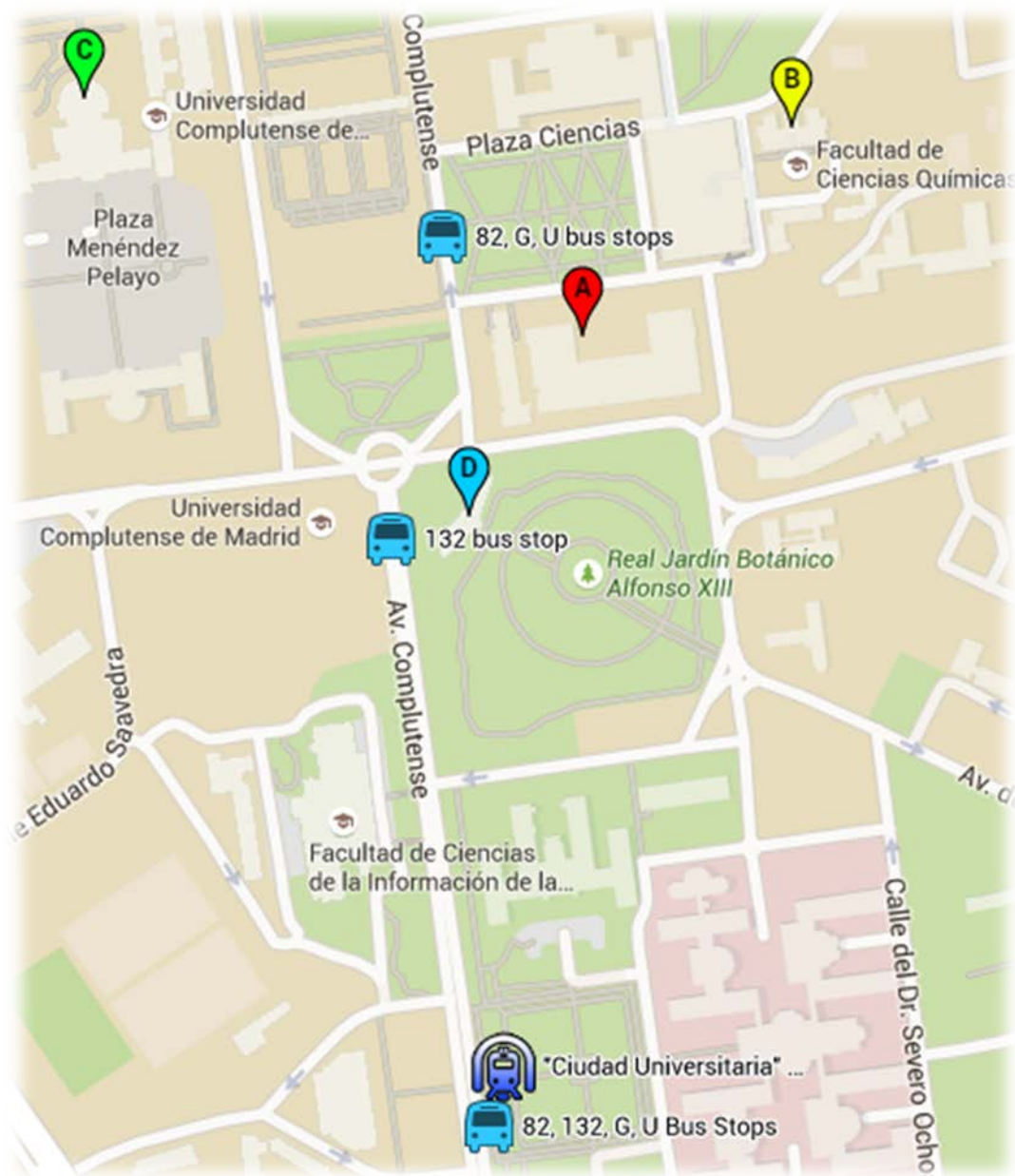
David de Frutos Escrig
President of Madrid meet 2015
Organization Committee
Co-Chair of CONCUR 2015 SC

Representing the rest of members in the Committees that have contributed to the celebration and organization of all the events included in Madrid meet 2015



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Location of the conferences



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- | | |
|---|--|
| A | Facultad de Matemáticas |
| B | Aulario de Químicas (Sessions only on Monday morning) |
| C | Comedor de Derecho (Lunch will be served there from Tuesday to Friday) |
| D | Jardín Botánico (Reception on Tuesday evening) |
-

Keynote Speakers

Matthew Hennessy (25 th Anniversary Speech)	<i>Behavioural Equivalences for Co-operating Transactions</i> Trinity College Dublin, Ireland.
Alexandra Silva	<i>Applications of Automata and Concurrency Theory in Networks</i> Radboud University, The Netherlands
Mohammad Reza Mousavi	<i>From Concurrency Theory to Testing Cyber-Physical Systems</i> Halmstad University, Sweden
James Worrell	<i>Reachability Problems for Continuous Linear Dynamical Systems</i> University of Oxford, UK
Gianluigi Zavattaro	<i>Automatic Application Deployment in the Cloud: from Practice to Theory and Back</i> Università di Bologna, Italy

Conference Committees

Co-Chairs

- Luca Aceto (IS)
- David de Frutos Escrig (ES)

Workshop Chair

- Fernando Rosa-Velardo (ES)

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| • Michele Loreti (IT) | • Nobuko Yoshida (UK) |
| • Bas Luttik (NL) | • Lijun Zhang (CN) |

Conference Program

Tuesday, September 1st

08:45-09:10	Registration
09:10-09:30	Opening
09:30-10:30	Invited Talk - Joint CONCUR + TGC: <i>Gianluigi Zavattaro</i> . Automatic Application Deployment in the Cloud: from Practice to Theory and Back
10:30-11:00	Coffee break
11:00-13:00	DISTRIBUTED SYSTEMS
	• <i>Nathalie Bertrand, Paulin Fournier and Arnaud Sangnier</i> . Distributed local strategies in broadcast networks
	• <i>Andrea Cerone, Giovanni Bernardi and Alexey Gotsman</i> . A Framework for Transactional Consistency Models with Atomic Visibility
	• <i>Salvatore La Torre, Anca Muscholl and Igor Walukiewicz</i> . Safety of parametrized asynchronous shared-memory systems is almost always decidable
	• <i>David Harel, Guy Katz, Robby Lampert, Assaf Marron and Gera Weiss</i> . On the Succinctness of Idioms for Concurrent Programming
13:00-14:30	Lunch
14:30-16:00	SYNTHESIS
	• <i>Romain Brenguier, Jean-Francois Raskin and Ocan Sankur</i> . Assume-Admissible Synthesis
	• <i>Paul Hunter, Guillermo Perez and Jean-Francois Raskin</i> . Reactive Synthesis Without Regret
	• <i>Eike Best and Raymond Devillers</i> . Synthesis of Bounded Choice-Free Petri Nets
16:00-16:30	Coffee break
16:30-18:30	QUANTITATIVE MODELS
	• <i>Jan Kretinsky, Kim G. Larsen, Simon Laursen and Jiri Srba</i> . Polynomial Time Decidability of Weighted Synchronization under Partial Observability
	• <i>Daniel Gebler and Simone Tini</i> . SOS Specifications of Probabilistic Systems by continuous operators
	• <i>Sadegh Soudjani, Rupak Majumdar and Alessandro Abate</i> . Dynamic Bayesian Networks as Formal Abstractions of Structured Stochastic Processes
	• <i>Vojtech Forejt and Jan Krčal</i> . On Frequency LTL in Probabilistic Systems
19:00-21:00	Welcome Reception

09:30-10:30	Plenary Invited Talk - Joint CONCUR+QEST+FORMATS: <i>James Worrell</i> . Reachability Problems for Continuous Linear Dynamical Systems
10:30-11:00	Coffee break
	BISIMULATION
11:00-13:00	<ul style="list-style-type: none"> • <i>Joachim Parrow, Johannes Borgström, Lars-Henrik Eriksson, Ramunas Gutkovas and Tjark Weber</i>. Modal Logics for Nominal Transition Systems • <i>Sergueï Lenglet and Alan Schmitt</i>. Howe's Method for Contextual Semantics • <i>Luca Cardelli, Mirco Tribastone, Max Tschaikowski and Andrea Vandin</i>. Forward and Backward Bisimulations for Chemical Reaction Networks • <i>Filippo Bonchi, Daniela Petrisan, Damien Pous and Jurriaan Rot</i>. Lax Bialgebras and Up-To Techniques for Weak Bisimulations
13:00-14:30	Lunch
	TIMED SYSTEMS
14:30-16:00	<ul style="list-style-type: none"> • <i>Taolue Chen, Fu Song and Zhilin Wu</i>. On the Satisfiability of Indexed Linear Temporal Logics • <i>Julian Gutierrez, Paul Harrenstein and Michael Wooldridge</i>. Expressiveness and Complexity Results for Strategic Reasoning • <i>Laura Bocchi, Julien Lange and Nobuko Yoshida</i>. Meeting Deadlines Together
16:00-16:30	Coffee break
	GAMES
16:30-18:00	<ul style="list-style-type: none"> • <i>Thomas Brihaye, Gilles Geeraerts, Axel Haddad and Benjamin Monmege</i>. To Reach or not to Reach? Efficient Algorithms for Total-Payoff Games • <i>Patricia Bouyer, Samy Jaziri and Nicolas Markey</i>. On the Value Problem in Weighted Timed Games • <i>Shaul Almagor, Guy Avni and Orna Kupferman</i>. Repairing Multi-Player Games

09:30-10:30	Invited Talk: Mohammad Reza Mousavi. From Concurrency Theory to Testing Cyber-Physical Systems
10:30-11:00	Coffee break
11:00-13:00	AUTOMATA <ul style="list-style-type: none"> • <i>C. Aiswarya, Benedikt Bollig and Paul Gastin.</i> An Automata-Theoretic Approach to the Verification of Distributed Algorithms • <i>Ernst Moritz Hahn, Guangyuan Li, Sven Schewe, Andrea Turrini and Lijun Zhang.</i> Lazy Probabilistic Model Checking without Determinisation • <i>Dana Fisman and Yoad Lustig.</i> A Modular Approach for Büchi Determinization • <i>Fu Song, Weikai Miao, Geguang Pu and Min Zhang.</i> On Reachability Analysis of Pushdown Systems with Transductions: Application to Boolean Programs with Call-by-Reference
13:00-14:00	Lunch
14:00-15:00	Plenary Invited Talk - CONCUR's 25th Anniversary - Joint CONCUR+QEST+FORMATS: <i>Matthew Hennessy.</i> Behavioural Equivalences for Co-operating Transactions
15:00-23:00	Excursion and CONCUR dinner

10:00-11:00	Invited Talk: <i>Alexandra Silva.</i> Applications of Automata and Concurrency Theory in Networks
11:00-11:30	Coffee break
11:30-13:30	MODEL CHECKING AND VERIFICATION <ul style="list-style-type: none"> • <i>Cesar Rodriguez, Marcelo Sousa, Subodh Sharma and Daniel Kroening.</i> Unfolding-based Partial Order Reduction • <i>Javier Esparza, Pierre Ganty, Jérôme Leroux and Rupak Majumdar.</i> Verification of Population Protocols • <i>Ivan Gavran, Filip Niksic, Aditya Kanade, Rupak Majumdar and Viktor Vafeiadis.</i> Rely/Guarantee Reasoning for Asynchronous Programs • <i>David Baelde, Stephanie Delaune and Lucca Hirschi.</i> Partial Order Reduction for Security Protocols
13:30-15:00	Lunch
15:00-17:00	TYPES AND QUANTUM SYSTEMS <ul style="list-style-type: none"> • <i>Dimitrios Kouzapas, Jorge A. Pérez and Nobuko Yoshida.</i> Characteristic Bisimulations for Higher-Order Session Processes • <i>Marco Carbone, Fabrizio Montesi, Nobuko Yoshida and Carsten Schurmann.</i> Multiparty Session Types as Coherence Proofs • <i>Yuxin Deng, Yuan Feng and Ugo Dal Lago.</i> On Coinduction and Quantum Lambda Calculi • <i>Yuan Feng and Mingsheng Ying.</i> Toward automatic verification of quantum cryptographic protocol

Keynote Speakers

Matthew Hennessy (25 th Anniversary Speech)	<i>Behavioural Equivalences for Co-operating Transactions</i> Trinity College Dublin, Ireland.
Boris Köpf	<i>Reasoning about the trade-off between security and performance</i> IMDEA Software Institute, Spain
Jozef Hooman	<i>Uniting academic achievements on performance analysis with industrial needs</i> RU Nijmegen and TNO-ESI, The Netherlands
James Worrell	<i>Reachability Problems for Continuous Linear Dynamical Systems</i> University of Oxford, UK

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- Lijun Zhang (CN)

09:30-10:30	Invited Talk: Boris Köpf. Reasoning about the trade-off between security and performance.
10:30-11:00	Coffee break
11:00-13:00	MODELLING AND APPLICATIONS <ul style="list-style-type: none"> • <i>Peter Popov, Kizito Salako and Vladimir Stankovic.</i> Stochastic modeling for performance evaluation of database replication protocols. • <i>Laura Carnevali, Christopher Nugent, Fulvio Patara and Enrico Vicario.</i> A continuous-time model-based approach to activity recognition for ambient assisted living. • <i>Farshad Shams and Mirco Tribastone.</i> Power trading coordination in smart grids using dynamic learning and coalitional game theory. • <i>Varun Badrinath Krishna, Gabriel A. Weaver and William H. Sanders.</i> PCA-based method for detecting integrity attacks on advanced metering infrastructure.
13:00-14:30	Lunch
14:30-16:00	TOOLS <ul style="list-style-type: none"> • <i>Luca Bortolussi, Dimitrios Milios and Guido Sanguinetti.</i> U-check: Model checking and parameter synthesis under uncertainty. • <i>Hiroyuki Okamura and Tadashi Dohi.</i> mapfit: An R-based tool for PH/MAP parameter estimation. • <i>Michael Bungert, Holger Hermanns and Reza Pulungan.</i> A compression app for continuous probability distributions.
16:00-16:30	Coffee break
16:30-18:30	PETRI NETS, PROCESS ALGEBRA AND FAULT TREES <ul style="list-style-type: none"> • <i>Lorenzo Capra, Massimiliano De Pierro and Giuliana Franceschinis.</i> Computing structural properties of Symmetric Nets. • <i>Tomas Brazdil, Lubos Korenciak, Jan Krcaľ, Petr Novotny and Vojtech Rehak.</i> Optimizing performance of continuous-time stochastic systems using timeout synthesis. • <i>Andrea Marin and Sabina Rossi.</i> Lumping-based equivalences in Markovian automata and applications to product-form analyses. • <i>Jean-Michel Fourneau and Nihal Pekergin.</i> A numerical analysis of dynamical fault trees based on stochastic bounds.
19:00-21:00	Welcome Reception

09:30-10:30	Plenary Invited Talk - Joint CONCUR+QEST+FORMATS: <i>James Worrell</i> . Reachability Problems for Continuous Linear Dynamical Systems
10:30-11:00	Coffee break
11:00-13:00	APPLICATIONS <ul style="list-style-type: none"> • <i>Asser Tantawi</i>. Quantitative placement of services in hierarchical clouds. • <i>Ulya Bayram, Kristin Y. Rozier and Eric Rozier</i>. Characterizing data dependence constraints for dynamic reliability using N-queens attack domains. • <i>Si Liu, Son Nguyen, Jatin Ganhotra, Muntasir Raihan Rahman, Indranil Gupta and Jose Meseguer</i>. Quantitative analysis of consistency in NoSQL key-value stores. • <i>John Mace, Charles Morisset and Aad van Moorsel</i>. Impact of policy design on workflow resiliency computation time.
13:00-14:30	Lunch
14:30-16:00	FORMATS SESSIONS
16:00-16:30	Coffee break
16:30-18:00	FORMATS SESSIONS

09:30-10:30	Invited Talk - Joint FORMATS: <i>Jozef Hooman</i> . Uniting academic achievements on performance analysis with industrial needs.
10:30-11:00	Coffee break
11:00-13:00	QUEUEING SYSTEMS AND HYBRID SYSTEMS <ul style="list-style-type: none"> • <i>Anne Bouillard, Ana Busic and Christelle Rovetta</i>. Perfect sampling for multiclass closed queueing networks. • <i>Gerardo Rubino</i>. Power and effectiveness in queueing systems. • <i>Yang Gao and Martin Fränzle</i>. A solving procedure for stochastic satisfiability modulo theories with continuous domain. • <i>Pontus Boström, Mikko Heikkilä, Mikko Huova, Marina Waldén and Matti Linjama</i>. Bayesian statistical analysis for performance evaluation in real-time control systems.
13:00-14:00	Lunch
14:00-15:00	Plenary Invited Talk - CONCUR's 25th Anniversary - Joint CONCUR+QEST+FORMATS: <i>Matthew Hennessy</i> . Behavioural Equivalences for Co-operating Transactions
15:00-23:00	Excursion and dinner

FORMATS 2015 (2-4 SEPTEMBER)

Keynote Speakers

Jeremy Sproston	<i>Verification and control of probabilistic rectangular hybrid automata</i> Università degli Studi di Torino, Italy
Jozef Hooman	<i>Uniting academic achievements on performance analysis with industrial needs</i> RU Nijmegen and TNO-ESI, The Netherlands
James Worrell	<i>Reachability Problems for Continuous Linear Dynamical Systems</i> University of Oxford, UK

Conference Committees

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- Enrico Vicario (IT)

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- Marco Paolieri (IT)

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| • Xiaoqing Jin (US) | • Ashutosh Trivedi (IN) |
| • Joost-Pieter Katoen (DE) | • Frits Vaandrager (NL) |
| • Kai Lampka (SE) | • Mahesh Viswanathan (US) |

Wednesday, September 2nd

09:30-10:30	Plenary Invited Talk - Joint CONCUR+QEST+FORMATS: <i>James Worrell</i> . Reachability Problems for Continuous Linear Dynamical Systems
10:30-11:00	Coffee break
	TIMED AUTOMATA (I)
11:00-13:00	<ul style="list-style-type: none">• <i>Amnon Rosenmann, Florian Lorber, Dejan Nickovic and Bernhard K. Aichernig</i>. Bounded Determinization of Timed Automata with Silent Transitions• <i>Rajesh Kumar, Enno Ruijters and Mariëlle Stoelinga</i>. Quantitative Attack Tree Analysis via Priced Timed Automata• <i>Guoqiang Li, Mizuhito Ogawa and Shoji Yuen</i>. Nested Timed Automata with Frozen Clocks• <i>Étienne André and Nicolas Markey</i>. Language Preservation Problems in Parametric Timed Automata
13:00-14:30	Lunch
	STOCHASTIC SYSTEMS
14:30-16:00	<ul style="list-style-type: none">• <i>Andrea Marin and Sabina Rossi</i>. Quantitative Analysis of Concurrent Reversible Computations• <i>Roberta Lanciani and Luca Bortolussi</i>. Fluid Model Checking of Timed Properties• <i>Clemens Dubslaff and Christel Baier</i>. Quantitative Analysis of Communication Scenarios
16:00-16:30	Coffee break
	HYBRID SYSTEMS
16:30-18:30	<ul style="list-style-type: none">• <i>Pavithra Prabhakar, Nima Roohi and Mahesh Viswanathan</i>. Deciding Concurrent Planar Monotonic Linear Hybrid Systems• <i>Patricia Bouyer-Decitre, Nicolas Markey, Nicolas Perrin and Philipp Schlehuber</i>. Timed automata abstraction of switched dynamical systems using control funnels• <i>Eike Moehlmann, Willem Hagemann and Oliver Theel</i>. Hybrid Tools for Hybrid Systems – Proving Stability and Safety at once• <i>Martin Fränzle, Sebastian Gerwinn, Paul Kröger, Alessandro Abate and Joost-Pieter Katoen</i>. Multi-Objective Parameter Synthesis in Probabilistic Hybrid Systems

09:30-10:30	Invited Talk - Joint FORMATS: <i>Jozef Hooman</i> . Uniting academic achievements on performance analysis with industrial needs.
10:30-11:00	Coffee break
11:00-13:00	TIMED AUTOMATA (II) <ul style="list-style-type: none"> • <i>Frédéric Herbreteau and Tran Thanh Tung</i>. Improving search order for reachability testing in timed automata • <i>Nicolas Basset</i>. Timed symbolic dynamics • <i>Gethin Norman, David Parker and Xueyi Zou</i>. Verification and Control of Partially Observable Probabilistic Real-Time Systems • <i>Aleksandra Jovanovic, Gethin Norman and Marta Kwiatkowska</i>. Symbolic Minimum Expected Time Controller Synthesis for Probabilistic Timed Automata
13:00-14:00	Lunch
14:00-15:00	Plenary Invited Talk - CONCUR's 25th Anniversary - Joint CONCUR+QEST+FORMATS: <i>Matthew Hennessy</i> . Behavioural Equivalences for Co-operating Transactions
15:00-23:00	Excursion and CONCUR dinner

10:00-11:00	Invited Talk: <i>Jeremy Sproston</i> . Verification and control of probabilistic rectangular hybrid automata
11:00-11:30	Coffee break
11:30-13:30	APPLICATIONS <ul style="list-style-type: none"> • <i>Philipp Reinkemeier, Albert Benveniste, Werner Damm and Ingo Stierand</i>. Contracts for Schedulability Analysis • <i>Raul Gorcitz, Emilien Kofman, Thomas Carle, Dumitru Potop Butucaru and Robert De Simone</i>. On the Scalability of Constraint Solving for Real-Time Scheduling • <i>Xavier Allamigeon, Vianney Boeuf and Stephane Gaubert</i>. Performance Evaluation of an Emergency Call Center: Tropical Polynomial Systems applied to Timed Petri Nets • <i>Erik Ramsgaard Wognsen, Boudewijn R. Haverkort, Marijn Jongerden, Rene Rydhof Hansen and Kim Guldstrand Larsen</i>. A Score Function for Optimizing the Cycle-Life of Battery-Powered Embedded Systems
13:30-15:00	Lunch

Keynote Speakers

Andrey Rybalchenko	<i>To be announced</i> Microsoft Research Cambridge, UK.
Gianluigi Zavattaro	<i>Automatic Application Deployment in the Cloud: from Practice to Theory and Back</i> Università di Bologna, Italy

Conference Committees

Program Co-Chairs

- Pierre Ganty (ES)
- Michele Loreti (IT)

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Conference Program

Monday, August 31st

13:00-14:30	Lunch
14:30-15:30	Invited Talk: <i>Andrey Rybalchenko</i> . To be announced.
15:30-16:00	<ul style="list-style-type: none">• <i>Giorgio Delzanno</i>, Data Tracking in Parameterized Systems.
16:00-16:30	Coffee break
16:30-18:00	<ul style="list-style-type: none">• <i>Ximeng Li, Flemming Nielson, Hanne Riis Nielson and Xinyu Feng</i>, Disjunctive Information Flow for Communicating Processes.• <i>José Fragoso Santos, Thomas Jensen, Tamara Rezk and Alan Schmitt</i>, Hybrid Typing Secure Information Flow in a JavaScript-like Language.• <i>Jose Fragoso Santos, Tamara Rezk and Ana Almeida Matos</i>, Modular Monitor Extensions for Information Flow Security in JavaScript.

Tuesday, September 1st

09:30-10:30	Invited Talk - Joint CONCUR + TGC: <i>Gianluigi Zavattaro</i> . Automatic Application Deployment in the Cloud: from Practice to Theory and Back
10:30-11:00	Coffee break
11:00-13:00	<ul style="list-style-type: none">• <i>Rocco De Nicola and Hernan Melgratti</i>, Multiparty testing preorders.• <i>Shota Nakagawa and Ichiro Hasuo</i>, Near-Optimal Scheduler Synthesis for LTL with Future Discounting.• <i>Sanjiva Prasad and Lenore Zuck</i>, A Switch, in Time.• <i>Gregor Goessler and Jean-Bernard Stefani</i>, Fault ascription in concurrent systems.
13:00-14:30	Lunch
14:30-15:30	<ul style="list-style-type: none">• <i>Sergiu Bursuc</i>, Secure two-party computation in applied pi-calculus: models and verification.• <i>Wang Qiang and Simon Bliudze</i>, Verification of Component-Based Systems via Predicate Abstraction and Simultaneous Set Reduction.

WS-FM/BEAT & FOCLASA 2015 (4-5 SEPTEMBER)

Keynote Speakers

Cosimo Laneve	<i>Static Analysis of Unbounded Networks with Behavioural Types</i> University of Bologna, Italy
Javier Esparza	<i>To be announced</i> Technische Universität München, Germany
Mario Bravetti	<i>Towards Dynamic Updates in Service Composition</i> University of Bologna, Italy

Conference & Workshop Committees

Program Co-Chairs (WS-FM/BEAT)

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- Jan Martijn van der Werf (NL)

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- Mario Bravetti (IT)
- Marlon Dumas (EE)
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- Keijo Heljanko (FI)
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- Marjan Sirjani (IS)
- Carolyn Talcott (US)
- Massimo Tivoli (IT)
- Mirko Viroli (IT)

Joint Conference Program

Friday, September 4th. WS-FM/BEAT

15:00-15:15	Opening
15:15-16:30	Invited Talk: <i>Cosimo Laneve</i> . Static Analysis of Unbounded Networks with Behavioural Types
16:30-17:00	Coffee break
	SESSION 2
17:00-19:15	<ul style="list-style-type: none">• <i>Eva Fajstrup Graversen, Jacob Buchreitz Harbo, Hans Hüttel, Mathias Ormstrup Bjerregaard, Niels Sonnich Poulsen and Sebastian Wahl</i>. Type Inference for Session Types in the Pi-Calculus• <i>Eleni Kokkinofta and Anna Philippou</i>. Type checking purpose-based access control policies in the pi-calculus• <i>Massimo Bartoletti and Roberto Zunino</i>. On honest interactions among untrusted services

Saturday, September 5th. WS-FM/BEAT & FOCLASA Joint Program

08:50-09:00	Opening
	SESSION I
09:00-10:30	<ul style="list-style-type: none">• <i>Andrea Canciani, Pierpaolo Degano, Gianluigi Ferrari and Letterio Galletta</i>. A Context-Oriented Extension of F#• <i>Jonathan Schuster, Stephen Chang and Matthias Felleisen</i>. Specifying Finite-State Actors
10:30-11:00	Coffee break
	SESSION II
11:00-11:45	<ul style="list-style-type: none">• <i>Marco Autili, Amleto Di Salle, Alexander Perucci and Massimo Tivoli</i>. On the Automated Synthesis of Enterprise Integration Patterns to Adapt Choreography-based Distributed Systems
11:45-13:00	Invited Talk: <i>Mario Bravetti</i> . Towards Dynamic Updates in Service Composition
13:00-14:45	Lunch
14:45-16:00	Invited Talk: <i>Javier Esparza</i> .
16:00-16:30	Coffee break
	SESSION IV
16:30-17:15	<ul style="list-style-type: none">• <i>Asma Cherif and Abdessamad Imine</i>. A Constraint-based Approach for Generating Transformation Patterns
17:15-17:30	Closing

WORKSHOPS

EPEW 2015 (31 AUGUST AND 1 SEPTEMBER)

Keynote Speakers

Eva Kalyvianaki	<i>Data Stream Processing Management in the Cloud</i> City University London, UK.
Leandro Soares Indrusiak	<i>Performance Guarantees in Manycore Embedded Systems based on Network-on-Chip</i> University of York, UK.

Workshop Committees

Co-Chairs

- Marta Beltran (ES)
- William Knottenbelt (UK)

Publicity Chair

- Isaac Martin de Diego (ES)

Proceedings Chair

- Jeremy Bradley (UK)

PC Members

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| • Marco Bernardo | • Helen Karatza | • Markus Siegle |
| • Tadeusz Czachorski | • Leila Kloul | • Yutaka Takahashi |
| • Dieter Fiems | • Samuel Kounev | • Miklos Telek |
| • Jean-Michel Fournau | • Catalina Llado | • Max Tschaikowski |
| • Stephen Gilmore | • Fumio Machida | • Nigel Thomas |
| • Jose Daniel Garcia | • Andrea Marin | • Petr Tuma |
| • Andras Horvath | • Marco Paolieri | • Maria Grazia Vigliotti |
| • Benny Van Houdt | • Roberto Pietrantuono | • Jean-Marc Vincent |
| • Mauro Iacono | • Philipp Reinecke | • Katinka Wolter |
| | • Jacques Resing | |
| | • Anne Remke | |

Workshop Program

Monday, August 31st

09:30-10:30	Invited Talk: <i>Eva Kalyvianaki</i> . Data Stream Processing Management in the Cloud
10:30-11:00	Coffee break
	APPLICATIONS I
11:00-13:00	<ul style="list-style-type: none"> • <i>Ioannis Dimitriou, Sara Alouf and Alain Jean-Marie</i>. A Markovian Queueing System for Modeling a Smart Green Base Station • <i>Paul Ezhilchelvan and Isi Mitrani</i>. Static and Dynamic Hosting of Cloud Servers • <i>Tianhui Meng, Katinka Wolter and Qiushi Wang</i>. Security and Performance Trade off Analysis of Mobile Offloading Systems under Timing Attacks • <i>Laura Carnevali, Francesco Flammini, Marco Paolieri and Enrico Vicario</i>. Non-Markovian Performability Evaluation of ERTMS/ETCS - Level 3
13:00-14:30	Lunch
	MODELLING TECHNIQUES
14:30-16:00	<ul style="list-style-type: none"> • <i>Farhana Islam, Murray Woodside and Dorina Petriu</i>. Simplifying Layered Queueing Network Models • <i>Tiberiu Chis and Peter Harrison</i>. Moment-Generating Algorithm for response time in processor sharing queueing systems • <i>Jasper Vanlerberghe, Joris Walraevens, Tom Maertens, Stijn De Vuyst and Herwig Bruneel</i>. On Generalised Processor Sharing and Objective Functions: Analytical Framework
16:00-16:30	Coffee break
	SOFTWARE PERFORMANCE
16:30-18:00	<ul style="list-style-type: none"> • <i>Felix Willnecker, Markus Dlugi, Andreas Brunnert, Simon Spinner, Samuel Kounev, Wolfgang Gottesheim and Helmut Krcmar</i>. Comparing the Accuracy of Resource Demand Measurement and Estimation Techniques • <i>Peter Libic, Lubomír Bulej, Vojtěch Horký and Petr Tuma</i>. Estimating the Impact of Code Additions on Garbage Collection Overhead • <i>Alexandru Danciu, Alexander Chrusciel, Andreas Brunnert and Helmut Krcmar</i>. Performance Awareness in Java EE Development Environments
20:30	Workshop dinner + flamenco show. Tablao Cardamomo

09:30-10:30	Invited Talk: <i>Leandro Soares Indrusiak</i> . Performance Guarantees in Manycore Embedded Systems based on Network-on-Chip
10:30-11:00	Coffee break
	MODELLING TECHNIQUES II
11:00-13:00	<ul style="list-style-type: none"> • <i>Andras Meszaros and Miklos Telek</i>. Canonical form of order 2 non-stationary Markov arrival processes • <i>Elvio Gilberto Amparore, Marco Beccuti, Susanna Donatelli, Giuliana Franceschinis, Peter Buchholz and Dimitri Scheftelowitsch</i>. Markov Decision Petri Nets with Uncertainty • <i>Diego Latella, Michele Loreti and Mieke Massink</i>. On-the-fly Fluid Model Checking via Discrete Time Population Models • <i>Freek van den Berg, Jozef Hooman, Arnd Hartmanns, Boudewijn Haverkort and Anne Remke</i>. Computing Response Time Distributions using Iterative Probabilistic Model Checking
13:00-14:30	Lunch
	APPLICATIONS II
14:30-16:00	<ul style="list-style-type: none"> • <i>Freek van den Berg, Anne Remke and Boudewijn Haverkort</i>. ISDL: Automated Performance Prediction and Analysis of Medical Imaging Systems • <i>Johannes Kroß, Andreas Brunnert, Christian Prehofer, Thomas A. Runkler and Helmut Krcmar</i>. Stream Processing On Demand for Lambda Architectures • <i>Björn F. Postema and Boudewijn Haverkort</i>. An AnyLogic Simulation Model for Power and Performance Analysis of Data Centers
16:00-16:30	Coffee break
	SIMULATION TECHNIQUES
16:30-17:30	<ul style="list-style-type: none"> • <i>Carlos E. Budde, Pedro R. D'Argenio and Holger Hermanns</i>. Rare event simulation with fully automated importance splitting • <i>Cheng Feng and Jane Hillston</i>. Speed-up of Stochastic Simulation of PCTMC Model

Keynote Speakers

Davide Sangiorgi	<i>Bisimulation techniques in probabilistic higher-order languages</i> University of Bologna, Italy
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Workshop Committees

Organizers

- Silvia Crafa (IT)
- Daniel Gebler (NL)

PC Members

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| • Thomas Given-Wilson (FR) | • Irek Ulidowski (UK) |
| • Thomas T. Hildebrandt (DK) | |

Workshop Program

Monday, August 31st

09:30-10:30	Invited Talk: <i>Davide Sangiorgi</i> . Bisimulation techniques in probabilistic higher-order languages
10:30-11:00	Coffee break
11:00-12:30	<ul style="list-style-type: none">• <i>Ornela Dardha and Jorge A. Perez</i>. Comparing Deadlock-Free Session Typed Processes• <i>Jovana Dedeic, Jovanka Pantovic and Jorge A. Perez</i>. On Compensation Primitives as Adaptable Processes• <i>Pedro R. D'Argenio, Matias D. Lee and Daniel Gebler</i>. SOS rule formats for convex and abstract probabilistic bisimulations
12:30-14:30	Lunch
14:30-16:00	<ul style="list-style-type: none">• <i>Kirstin Peters and Rob Van Glabbeek</i>. Analysing and Comparing Encodability Criteria• <i>Meike Hatzel, Christoph Wagner, Kirstin Peters and Uwe Nestmann</i>. Encoding CSP into CCS• <i>Reuben Rowe</i>. Encoding the Factorisation Calculus
16:00-16:30	Coffee break

PV 2015 (4-5 SEPTEMBER)

Workshop Committees

Organizers

- Parosh A. Abdulla (SE)
- Giorgio Delzanno (IT)

Workshop Program

Friday, September 4th

09:30-11:00	<ul style="list-style-type: none">• <i>Prasad A. Sistla</i>. Automata Theoretic Approach for model checking of Open Probabilistic systems• <i>Alain Finkel</i>. Parameterized and infinite branching WSTS
11:00-11:30	Coffee break
11:30-13:00	<ul style="list-style-type: none">• <i>Benedikt Bollig</i>. Büchi's Theorem: From Fixed Architectures to Parameterized Systems• <i>Helmut Veith</i>. Parameterized Verification of Fault-Tolerant Distributed Algorithms and Beyond
13:00-14:30	Lunch
14:30-16:00	<ul style="list-style-type: none">• <i>Ahmed Rezine</i>. Beyond well structured systems• <i>Cesar Sanchez</i>. Temporal Deductive Verification of Parametrized Systems
16:00-16:30	Coffee break
16:30-17:15	<ul style="list-style-type: none">• <i>Javier Esparza</i>. Computing with population protocols.

Saturday, September 5th

09:30-11:00	<ul style="list-style-type: none">• <i>Ahmed Bouajjani</i>. On Refinement Checking between Libraries of Concurrent Data Structures• <i>Fernando Rosa Velardo</i>. Timed extensions of Petri nets with data
11:00-11:30	Coffee break
11:30-13:00	<ul style="list-style-type: none">• <i>Giorgio Delzanno</i>. Parameterized Verification of Distributed Broadcast Protocols• <i>Arnaud Sangnier</i>. Adding probabilities to Networks with Selective Broadcast
13:00-14:30	Lunch
14:30-16:00	<ul style="list-style-type: none">• <i>Pierre Ganty</i>. Liveness in Parameterized Systems• <i>Mohamed Faouzi Atig</i>. Verification of Cache Coherence Protocols wrt. Trace Filters
16:00-16:30	Coffee break
16:30-17:15	<ul style="list-style-type: none">• <i>Klaus von Gleissenthall</i>. Synthesizing Cardinality Invariants for Parameterized Systems

TRENDS 2015 (5 SEPTEMBER)

Keynote Speakers

Bartek Klin	<i>To be announced</i> University of Warsaw, Poland.
Irek Ulidowski	<i>To be announced</i> University of Leicester, UK.
Patricia Bouyer-Decitre	<i>To be announced</i> CNRS, France

Workshop Committees

Organizers

- Ilaria Castellani (FR)
- Mohammad Mousavi (SE)

Workshop Program

Saturday, September 5th

09:00-09:45	Invited Talk: <i>Patricia Bouyer-Decitre.</i>
09:45-10:30	Invited Talk: <i>Bartek Klin.</i>
10:30-11:00	Coffee break
11:00-11:45	Invited Talk: <i>Irek Ulidowski.</i>
11:45-13:00	IFIP WG 1.8 Business Meeting (Open to all)
13:00-14:00	Lunch

YR-CONCUR 2015 (5 SEPTEMBER)

Workshop Committees

Organizer and PC Chair

- Matteo Cimini (US)

PC Members

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| • Sophia Knight (FR) | • Gianluigi Zavattaro (IT) |
| • Hernan Melgratti (AR) | |

Workshop Program

Saturday, September 5th

Morning	All the participants at the Workshop are kindly invited to attend the morning sessions of any of the events this day, in especial to the three invited talks programmed at TRENDS.	
13:55-14:00	Welcome	
14:00-15:30	<ul style="list-style-type: none">• <i>Paul-David Brodmann</i>. Distributability of Asynchronous Process Calculi• <i>Dana Angluin and Dana Fisman</i>. Learning Regular Omega Languages• <i>Antonio Brogi and Jacopo Soldani</i>. Modelling and Analysing the Management of Cloud Applications	
15:30-16:00	Coffee break	
16:00-17:00	<ul style="list-style-type: none">• <i>Weizhen Yang</i>. Generalised Timed Choreography• <i>Rafael Martínez-Torres</i>. A Conformance Simulation Relation for Model Based Testing and Formal Methods	

HSB 2015 (4-5 SEPTEMBER)

Keynote Speakers

Luca Cardelli	<i>Morphisms of reaction networks</i> Microsoft Research
Mustafa Khammash	<i>Cybergenetics: Synthetic Circuits and Systems for the Precise Control of Living Cells</i> ETH Zurich, Switzerland

Workshop Committees

Co-Chairs

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- David Šafránek (CZ)

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| • Radu Grosu (AU) | • Jana Tůmová (SE) |
| • Ádám Halász (US) | • S.A. Wahl (NL) |
| • Joao Hespanha (US) | • Verena Wolf (DE) |
| • Jane Hillston (UK) | • Boyan Yordanov (UK) |
| • Agung Julius (US) | • Paolo Zuliani (UK) |
| • Heinz Koepl (DE) | |

Workshop Program

Friday, September 4th

9:15-9:30	Opening
	STATISTICAL ANALYSIS
09:30-10:30	<ul style="list-style-type: none">• <i>Eugenio Cinquemani</i>. Reconstructing statistics of promoter switching from reporter protein population snapshot data• <i>Adam Streck and Heike Siebert</i>. Comparative Statistical Analysis of Qualitative Parametrization Sets
11:00-11:30	Coffee break
	ANALYSIS AND VERIFICATION OF CONTINUOUS AND HYBRID MODELS
11:30-13:30	<ul style="list-style-type: none">• <i>R. Ramanathan, Yan Zhang, Jun Zhou, Weng-Fai Wong and P. S. Thiagarajan</i>. Parallelized Statistical Model Checking for Analysis of Biological Pathways• <i>Lubos Brim, Martin Demko, Samuel Pastva and David Šafránek</i>. High-Performance Discrete Bifurcation Analysis for Piecewise-Affine Dynamical Systems• <i>Louis Fippo Fitime, Christian Schuster, Peter Angel, Olivier Roux and Carito Guziolowski</i>. Integrating time-series data on large-scale cell-based models• <i>Benjamin M. Gyori, Bing Liu, Soumya Paul, R Ramanathan and P S Thiagarajan</i>. Approximate Probabilistic Verification of Hybrid Systems
13:30-15:00	Lunch
15:00-16:00	Invited Talk: <i>Luca Cardelli</i> . Morphisms of reaction networks
16:00-16:30	Coffee break
16:30-18:30	Poster Session

09:30-10:30	Invited Talk: <i>Mustafa Khammash</i> . Cybergenetics: Synthetic Circuits and Systems for the Precise Control of Living Cells
10:30-11:00	Coffee break
	QUANTITATIVE ANALYSIS OF BIOLOGICAL MODELS
11:00-13:00	<ul style="list-style-type: none"> • <i>Marta Kwiatkowska, Alexandru Mereacre, Nicola Paoletti and Andrea Patane</i>. Synthesising robust and optimal parameters for cardiac pacemakers using symbolic and evolutionary computation techniques • <i>Christoph Bock, Luca Bortolussi, Thilo Krüger and Linar Mikeev</i>. Model-based whole genome analysis of DNA methylation fidelity • <i>Laura Nenzi, Ezio Bartocci, Luca Bortolussi, Dimitrios Miliotis and Guido Sanguinetti</i>. Studying Emergent Behaviours in Morphogenesis using Signal Spatio-Temporal Logic • <i>Andreea Beica, Calin Guet and Tatjana Petrov</i>. Efficient reduction of Kappa models by static inspection of the rule-set
13:00-14:30	Lunch
	APPLICATION OF ADVANCED MODELS ON CASE STUDIES
14:30-16:00	<ul style="list-style-type: none"> • <i>Md. Ariful Islam, Richard DeFrancisco, Chuchu Fan, Radu Grosu, Sayan Mitra and Scott Smolka</i>. Model Checking Tap Withdrawal in C. Elegans • <i>Delphine Draelants, Przemyslaw Klosiewicz, Jan Broeckhove and Wim Vanroose</i>. Solving General Auxin Transport Models with a Numerical Continuation Toolbox in Python: PyNCT • <i>Gustavo Santos-Garcia, Javier De Las Rivas and Carolyn Talcott</i>. Analysis of Cellular Proliferation and Survival Signaling by Using Two Ligand/Receptor Systems Modeled by Pathway Logic
16:00-16:30	Coffee break and Closing

SOCIAL EVENTS

Main Conferences Events (CONCUR and QEST/FORMATS)

Welcome Reception & Concert

Tuesday, September 1st 19:30 – 21:30

Real Jardín Botánico Alfonso XIII (just crossing the street at the back of Fac. Matemáticas)

We will enjoy a nice cocktail where both drinks and elaborated appetizers will be served, having a new opportunity to chat with our colleagues. Let me encourage all of you to fraternize with new people, looking in particular for our youngest attendees who usually look a bit lost in this kind of celebrations.

After the cocktail we will have the opportunity to enjoy a nice concert by a String Quartet.

Even if we cannot offer chairs at the location, you will find some places to seat down, or just continue standing up enjoying your drinks, but of course we expect silence during the concert.

Concert Program

- Música Nocturna de las Calles de Madrid (Musica notturna delle strade di Madrid): *Pasacalle (Passa calle)*, Luigi Bocherinni.
- Oración del Torero, Joaquín Turina.
- Acuarelas Valencianas, Eduardo López-Chávarri.



Excursion to Toledo and Conference(s) Dinner

Thursday, September 3rd

15:30 – 23:30

15:30-16:30	Trip Madrid – Toledo Guided visit to Toledo , including the visit to “ Santa María la Blanca ”.
16:30-19:00	We will organize 5 different groups with their corresponding guides. We will strongly appreciate your collaboration in order to form these groups in the most efficient way and as much balanced as possible.
19:00-19:30	Short transfer to “El Cigarral del Bosque” Dinner at “El Cigarral del Bosque” By the way the dinner will have two parts: the first one, will be a long cocktail in the verandah of the Hotel, enjoying the great panorama that the city of Toledo offers. Please, enjoy the great assortment of appetizers that will be served with your drinks. Next we will move to the beautiful halls of the Hotel and seat down at the tables for the second part, composed of seafood cream, <i>solomillo de ternera</i> (filet mignon) and dessert.
19:30-22:30	Even if we have already received the special meal needs of all the attendees, we kindly ask those who signaled those needs, to look for the help of any organizer in case they have any doubt about the special meal you will be offered.
22:30-23:30	Trip back to Madrid We plan to stop around Moncloa, since it is close to all the hotels we recommended. Please ask the organizers for information on how to reach your destination from there, taking the arrival time into account.



Other Events

Monday, August 31st EPEW Workshop Dinner & Flamenco Show at Cardamomo

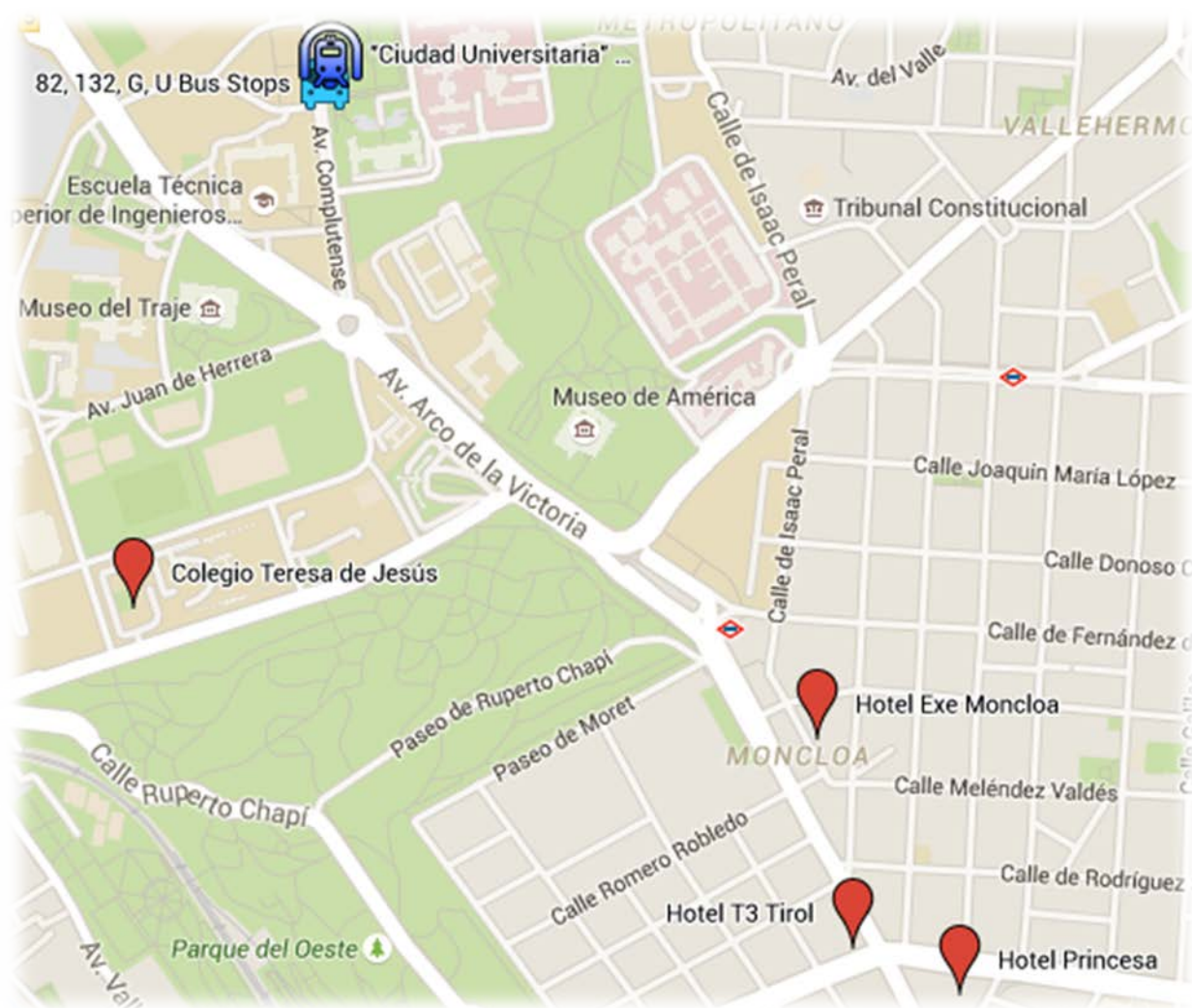
Friday, September 4th WS-FM/BEAT Conference Dinner (place to be decided)

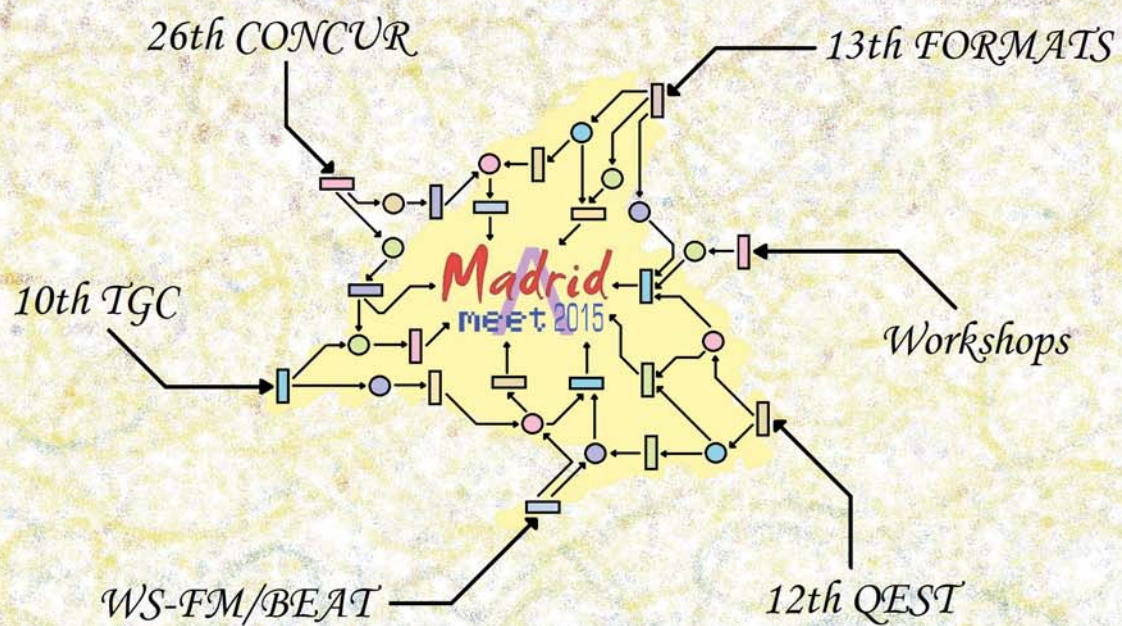
Wednesday, September 2nd 19:00 – 21:00: Guided Visit to “**Madrid de los Austrias**”
Offered by “Ayuntamiento de Madrid”

Unfortunately, they could only offer 60 places, that we will assign to the interested attendees in a first come, first served way.

Possibly some other events will organize some special dinner(s) on the fly.

Hotels





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