



8th International Conference

11 - 14 October 2010

Nancy, France

DETAILED PROGRAM

Organisation:

INSTITUT NATIONAL
DE RECHERCHE
EN INFORMATIQUE
ET EN AUTOMATIQUE



INRIA

centre de recherche NANCY - GRAND EST



Monday, October 11, 2010

08 :45 Registration.

09 :30—17:00

WTS 2010: Workshop on Formal Methods for Web Data Trust and Security

09:00—12:30

Tutorial: Verification of C# programs using Spec# and Boogie 2

Rosemary Monahan, National University of Ireland

Coffee breaks:

10:30 - 10:50

15:20 - 15:40

Lunch break:

12:45 - 14:00

14:00—17:30

Tutorial: The TLA+ Proof System

Denis Cousineau, MSR-INRIA Joint Centre, Saclay, **Stephan Merz, INRIA Nancy & LORIA**

Tuesday, October 12, 2010

09:15

Opening of iFM 2010

09:30

Invited talk

Collaborative Modelling and Co-Simulation in the Development of Dependable Embedded Systems

John Fitzgerald, School of Computer Science, Newcastle University

10:30

Coffee break

Model Transformations I

11:00

Specification and Verification of Model Transformations Using UML-RSDS

Kevin Lano, Shekoufeh Kolahdouz Rahimi

11:30

Multiformalism and transformation inheritance for dependability analysis of critical systems

Stefano Marrone, Camilla Papa, Valeria Vittorini

12:00

Full Semantics Preservation in Model Transformation – A Comparison of Proof Techniques

Mathias Hülsbusch, Barbara König, Arend Rensink, Maria Semenyak, Christian Soltenborn, Heike Wehrheim

12:45

Lunch

Probabilistic and Real-Time Systems

14:15

Satisfaction Meets Expectations: Computing Expected Values of Probabilistic Hybrid Systems with SMT

Martin Fränzle, Tino Teige, Andreas Eggers

14:45

Towards Probabilistic Modelling in Event-B

Anton Tarasyuk, Elena Troubitsyna, Linas Laibinis

15:15

Verification Architectures: Compositional Reasoning for Real-time Systems

Johannes Faber

15:45

Coffee break

Verification I

16:15

Symbolic Model-Checking of Optimistic Replication Algorithms

Hanifa Boucheneb, Abdessamad Imine, Manal Najem

16:45

A Logical Framework to Deal with Variability

Patrizia Asirelli, Maurice H. ter Beek, Alessandro Fantechi, Stefania Gnesi

17:15

From Operating-System Correctness to Pervasively Verified Applications
Matthias Daum, Norbert Schirmer, Mareike Schmidt

19:00

Welcome Reception at [Musée Lorrain](#)



Wednesday, October 13, 2010

09:30

Invited talk

Programming with Miracles

Rajeev Joshi, Laboratory for Reliable Software, NASA Jet Propulsion Laboratory

10:30

Coffee break

Refinement

11:00

Creating sequential programs from Event-B models

Pontus Boström

11:30

A CSP approach to Control in Event-B

Steve Schneider, Helen Treharne, Heike Wehrheim

12:00

An Event-B Approach to Data Sharing Agreements

Alvaro Arenas, Benjamin Aziz, Juan Bicarregui, Michael Wilson

12:45

Lunch

Verification II

14:15

Integrating Implicit Induction Proofs into Certified Proof Environments

Sorin Stratulat

14:45

Automatic Verification of Parametric Specifications with Complex Topologies

Johannes Faber, Carsten Ihlemann, Swen Jacobs, Viorica Sofronie-Stokkermans

15:15

Adding Change Impact Analysis to the Formal Verification of C Programs

Serge Autexier, Christoph Lüth

15:45

Coffee break

Program Analysis

16:15

A Compositional Method for Deciding Equivalence and Termination of Nondeterministic Programs

Aleksandar Dimovski

16:45

Certified Absence of Dangling Pointers in a Language with Explicit Deallocation

Javier de Dios, Manuel Montenegro, Ricardo Peña

17:15

Safe Commits for Transactional Featherweight Java

Thi Mai Thuong Tran, Martin Steffen

19:30

Conference Dinner, Hôtel de Ville, [Place Stanislas](#)



Thursday, October 14, 2010

09:30

Invited talk

On Model Checking Techniques for Randomized Distributed Systems

Christel Baier, Chair of Algebraic and Logical Foundations of Computer Science, TU Dresden

10:30

Coffee break

Translations

11:00

Systematic translation rules from ASTD to Event-B

Jérémy Milhau, Marc Frappier, Frederic Gervais, Régine Laleau

11:30

Translating Pi-Calculus into LOTOS NT

Radu Mateescu, Gwen Salaün

12:00

Closing session of iFM 2010 and farewell

12:30

Lunch

INFORMATION

Participants are required to wear their conference badge in the INRIA Building.

Sessions will take place in the Amphitheatre C.

Coffee breaks will take place in the main hall next to the Amphitheatre C.

The *Lunch* ticket is to be given at the cashier in the LORIA restaurant. Lunch is composed of a piece of bread, a first course, a main course, a yoghurt or cheese, a dessert and a drink.

The *Hot Drink* ticket is to be given at the cafeteria of the LORIA for any hot drink.

A computer room is at the participants' disposal (C003, on the ground floor).

LOGIN:colloque

PASSWORD: colloque

DOMAIN: Local

Participants with an Eduroam account can connect as usual, otherwise a login and password will be provided.

A wireless network is available in the whole building in which the conference takes place. (Net guest-loria): Connection is made available using the login and password at the back of the badge.

SOCIAL EVENTS:

--Tuesday, 12th October:

--**7.pm**: A guided Tour at the Lorraine Museum is planned: Palais Ducal, Rooms : G. de la Tour, J. Callot, space S. Leszczynski + "L'Eglise des Cordeliers".

--**8.30 pm**: A welcome cocktail will take place in the main hall of the Lorraine Museum..

--Wednesday, 13th October:

--**7.30 pm** : IFM 2010 Gala Dinner at the City Hall.

Useful information on site:

A computer room is at the participants' disposal.

A wireless network is available in the whole building in which the conference takes place.

Participants with an Eduroam account can connect as usual, otherwise a login and password will be provided.

The eduroam network is available in the INRIA building.

<http://www.eduroam.fr/en/index.html>

In an effort of Sustainable Development, the Organization Committee encourages the conference participants to dispose of their badge in the tray next to the AMPHI C before leaving.



Attendance certificates are available on request at the reception desk or at :
colloques-ncy@inria.fr

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