8th International Conference

11 - 14 October 2010
Nancy, France

DETAILED PROGRAM

Organisation:
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, Frédéric 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:**

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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.

![Recycle](https://via.placeholder.com/15)

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