

# Wednesday, April 20, 2011

Registration: 8:00-9:00

- **Registration opens**

9:00 – 9:30

Conference Opening

Invited talk: 9:30-10:30

- **Proposition algebra and short-circuit logic**  
Jan Bergstra - University of Amsterdam, Netherlands

Coffee Break (10:30-10:45)

**Morning Session:**  
10:45-12:35

10:45-11:15

- **Attacking the Dimensionality Problem of Parameterized Systems via Bounded Reachability Graphs**  
Qiusong Yang, Bei Zhang, Jian Zhai and Mingshu Li

11:15-11:45

- **Reachability analysis of non-linear planar autonomous systems**  
Hallstein Asheim Hansen, Gerardo Schneider and Martin Steffen

11:45-12:05

- **Nested Dynamic Condition Response Graphs**  
Thomas Hildebrandt, Raghava Rao Mukkamala and Tijs Slaats (short paper)

12:05-12:35

- **Strong Normalisation in Lambda-Calculi with References**  
Romain Demangeon, Daniel Hirschhoff and Davide Sangiorgi. Romain Demangeon, Daniel Hirschhoff and Davide Sangiorgi

Lunch (12:35-13:45)

Invited talk: 13:45-14:45

- **Invited talk**  
Matthew hennessy - Trinity College Dublin, Ireland

**Afternoon Session:**  
14:45-15:45

14:45-15:15

- **Decidability of Behavioral Equivalences in Process Calculi with Name Scoping**  
Chaodong He, Yuxi Fu, Hongfei Fu

15:15-15:45

- **Rewriting Approximations For Properties Verification Over CCS Specifications**  
Roméo Courbis

Coffee Break and Poster Presentations(15:45-16:45)

**Evening Session:**  
16:45-17:45

16:45-17:15

- **Relating modal refinements, covariant-contravariant simulations and partial bisimulations**  
Luca Aceto, Ignacio Fabregas, David de Frutos Escrig, Anna Ingolfsdottir and Miguel Palomino

17:15-17:45

- **Decompositional Reasoning about the History of Parallel Processes**  
Luca Aceto, Arnar Birgisson, Anna Ingolfsdottir and Mohammadreza Mousavi

# Thursday, April 21, 2011

Invited talk: 9:00-10:00

- **Towards specification inference**  
Carlo Ghezzi - Politecnico di Milano, Italy

Coffee Break (10:00-10:15)

**Morning Session:**  
10:15-12:05

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|-------------|--|
| 10:15-10:45 | • <b>Towards Model-Based Testing of Electronic Funds Transfer Systems</b><br>Hamid Reza Asaadi, Ramtin Khosravi, Mohammadreza Mousavi and Neda Noroozi |
| 10:45-11:05 | • <b>Efficient Verification of Evolving Software Product Lines</b><br>Hamideh Sabouri and Ramtin Khosravi (short paper)                                |
| 11:05-11:35 | • <b>Analyzing Component-Based Systems on the Basis of Architectural Constraints</b><br>Christian Lambertz and Mila Majster-Cederbaum                  |
| 11:35-12:05 | • <b>Composing Real-Time Concurrent Objects: Refinement, Compatibility and Schedulability</b><br>Mohammad Mahdi Jaghoori                               |

Lunch (12:05-13:30)

**Afternoon Session:**  
13:30-14:30

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|-------------|--|
| 13:30-13:50 | • <b>Extending Interface Automata with Z Notation</b><br>Zining Cao (short paper)  |
| 13:50-14:10 | • <b>A specification language for Reo connectors</b><br>Alexandra Silva (short paper)  |
| 14:10-14:30 | • <b>Intentional Automata: A Context-Dependent Model For Component Connectors (Extended Abstract)</b><br>David Costa, Milad Niqui and Jan Rutten (short paper) |

Coffee Break (14:30-15:00)

Conference Social Event

# Friday, April 22, 2011

Invited talk: 9:00-10:00

- **Model Checking -- One Can Do Much More Than You Think!**  
Joost-Pieter Katoen - RWTH Aachen University, Germany

Coffee Break (10:00-10:15)

**Morning Session:**  
10:15-12:15

- 10:15-10:45 • **Constructive Development of Probabilistic Programs**  
Hassan Haghghi and Mahdi Javanmard
- 10:45-11:15 • **Compositional Reasoning for Markov Decision Processes (Extended Abstract)**  
Yuxin Deng and Matthew Hennessy
- 11:15-11:45 • **Specification Guidelines to avoid the State Space Explosion Problem**  
Jan F. Groote, Tim Kouters and Ammar Osaiweran
- 11:45-12:15 • **A Model-based Development approach for Model Transformation**  
Shekoufeh Kolahdouz Rahimi and Kevin Lano

Lunch (12:15-13:45)

**Afternoon Session:**  
13:45-15:15

- 13:45-14:15 • **A Distributed Logic for Networked Cyber-Physical Systems**  
Minyoung Kim, Mark-Oliver Stehr and Carolyn Talcott
- 14:15-14:45 • **Refinement-Based Modeling of 3D NoCs**  
Maryam Kamali, Luigia Petre, Kaisa Sere and Masoud Daneshtalab
- 14:45-15:15 • **Analysing the Control Software of the Compact Muon Solenoid Experiment at the Large Hadron Collider**  
Yi Ling Hwong, Vincent Kusters and Tim Willemse

Coffee Break (15:15-15:45)

**Evening Session:**  
15:45-16:45

- 15:45-16:15 • **Type Checking Cryptography Implementations**  
Manuel Barbosa, Andrew Moss, Dan Page, Paulo F. Silva, Nuno F. Rodrigues
- 16:15-16:45 • **Safe Locking for Multi-Threaded Java**  
Einar Broch Johnsen, Thi Mai Thuong Tran, Olaf Owe, and Martin Steffen

16:45-17:45

Conference Closing