

Thursday, 24 August 2017

09:00-09:30 Opening session

09:30-10:30 Invited Lecture 1

- Mourad Debbabi. **Measuring and Enhancing Smart Grid Security**

10:30-11:00 Coffee Break

11:00-12:30 Session 1: **Stochastic Model Checking / Performance Analysis**

- Muhammad Saad Ayub and Osman Hasan. **Formal Probabilistic Analysis of a Virtual Fixture Control Algorithm for a Surgical Robot**
- Sana Younes and Momtez Benmbarek. **Performance Analysis of Multi-Services Call Admission Control in Cellular Network using Model Checking**
- Sedda Hakmi, Ouiza Lekadir and Djamil Aissani. **Application of Generalized stochastic Petri nets to Performance Modeling of the RF Communication in Sensor Networks**

12:30-14:00 Lunch

14:00-15:00 Invited Lecture 2

- Michel Dagenais. **Live Run-Time Verification of Parallel Heterogeneous Real-Time Systems**

15:00-15:30 Coffee Break

15:30-17:00 Session 2: **Worst Case Time Analysis / Performance Analysis**

- Peter Poplavko, Ayoub Nouri, Lefteris Angelis, Alexandros Zerzelidis, Saddek Bensalem and Panagiotis Katsaros. **Regression-based Statistical Bounds on Software Execution Time**
- Armel Mangan, Jean-Luc Béchenec, Mikaël Briday and Sébastien Faucou. **WCET analysis by Model Checking for a processor with dynamic branch prediction**
- Qi Yu, Libo Huang, Cheng Qian and Zhiying Wang. **Factor-Based C-AMAT Analysis for Memory Optimization**

Friday, 25 August 2017

09:30-10:30 Invited Lecture 3

- Zhiwu Li. **Deadlock Analysis and Control of Resource Allocation Systems: Structural and Reachability Graph Approaches**

10:30-11:00 Coffee Break

11:00-12:30 Session 3: *Diagnosability Analysis / Modeling and analysis of mobile systems*

- Abderraouf Boussif and Mohamed Ghazel. **An Experimental Comparison of Two Approaches for Diagnosability Analysis of Discrete Event Systems - A Railway Case-Study**
- Hana Jouini, Mohamed Escheikh, Kamel Barkaoui and Tahar Ezzedine. **Mobility load balancing over intra-frequency heterogeneous networks using handover adaptation**
- Nicolas Riviere, Pierre Andre and Helene Waeselynck. **A toolset for mobile systems testing**

12:30-14:00 Lunch

14:00-16:00 Session 4: *Reachability analysis / Model transformation / Model comparison*

- Ibtissem Seghaier and Sofiene Tahar. **Intertwined Global Optimization based Reachability Analysis**
- Bogdan Aman and Gabriel Ciobanu. **Analyzing Distributed Pi-Calculus Systems by Using the Rewriting Engine Maude**
- Hela Guesmi, Belgacem Ben Hedia, Simon Bliudze, Saddek Bensalem and Briag Le Nabec. **TT-BIP: Using Correct-by-Design BIP Approach for Modeling Real-Time System with Time-Triggered Paradigm**
- Mojgan Kamali and Luigia Petre. **Uppaal vs Event-B for Modelling Optimised Link State Routing**

16:00-16:30 Closing Session

Conference Cruise Diner 19h – 23h