



## Preliminary program

Conference Room  
LAAS-CNRS  
7, Av du Colonel Roche  
Toulouse



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# 14 MAY 2009

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8:30 – 9:00 Registration

**9:00 – 9:15 Welcome address from the workshop Chair**

**9:15 – 10:45 Formal analysis of code or models**

- A tool for checking secure interaction in Java Cards  
*Marco Avvenuti, Cinzia Bernardeschi, Nicoletta De Francesco, Paolo Masci (University of Pisa, Italy)*
- Model Checking by Censoring Markov Chains and Stochastic Comparison  
*Nihal Pekergin, Sana Younès (University Paris 12, France)*
- Observation Graph implementation for TINA toolbox  
*Rodrigo Tacla Saad, François Vernadat, Bernard Berthomieu, Silvano Dal Zilio (LAAS-CNRS, Université de Toulouse, France)*
- Discret and Hybrid Systems Dependability Analysis with ESA PetriNet  
*Romaric Guillerm, Hamid Demmou (LAAS-CNRS, Université de Toulouse, France), Nabil Sadou (SUPELEC/IETR, France)*

**Coffee break**

**11:15 – 12:15 Validation of web services**

- Automatic web service robustness testing from WSDL descriptions  
*Sébastien Salva, Issam Rabhi (LIMOS, France)*
- A Tool for Assessing Fault Tolerance Mechanisms applied to Web Services  
*Khaled Farj, Neil Speirs (Newcastle University, UK)*
- Testing Web Services for Robustness: A Tool Demo  
*Nuno Laranjeiro, Marco Vieira (University of Coimbra, Portugal)*

**Lunch**

**13:30 – 15:15 Testing**

- Revisiting the Steam-Boiler Case Study with Lutess: Modeling for Automatic Test Generation  
*Virginia Papailiopolou, Besnik Seljimi, Ioannis Parissis (University of Grenoble, France)*
- Risk-based Statistical Testing: A refinement-based approach to the reliability analysis of safety-critical systems  
*Fabian Zimmermann, Robert Eschbach, Johannes Kloos, Thomas Bauer (Fraunhofer IESE, Germany)*
- Distinguish Dynamic Basic Blocks by Structural Statistical Testing  
*Matthieu Petit (Roskilde University, Denmark), Arnaud Gotlieb (INRIA Rennes, France)*
- Code Coverage Analysis for Concurrent Programming Languages Using High-Level Decision Diagrams  
*Maksim Jenihhin, Jaan Raik, Anton Chepurov, Uljana Reinsalu, Raimund Ubar (Tallinn UT, Estonia)*

**Coffee break**

### **15:45 – 17:00 Fault Injection**

- Experiences from Verifying a Partitioning Kernel Using Fault Injection  
*Raul Barbosa, Johan Karlsson (Chalmers University of Technology, Sweden)*
- Attack Injection for Performance and Dependability Assessment of Ad-Hoc Networks  
*Jesus Friginal, Juan-Carlos Ruiz, David de Andrés, Pedro Gil (UPV, Spain)*
- Robustness Testing of Robot Controller Software  
*Hoang-Nam Chu, Jean Arlat, Marc-Olivier Killijian, Benjamin Lussier, David Powell (LAAS-CNRS, Université de Toulouse, France)*

### **18:45 Visit of the natural history museum**

### **20:30 Banquet**

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15 MAY 2009

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### **9:00 – 10:30 Experience reports**

- Model-Driven Testing based on Markov Chain Usage Models in the Automotive Domain  
*Sebastian Siegl, Winfried Dulz, Reinhard German (University of Erlangen- Nuremberg, Germany), Gerhard Kiffe (AUDI AG, Germany)*
- Validating Failure Detection Isolation and Recovery Strategies using Timed Automata  
*Ana-Elena Rugina, Jean-Paul Blanquart (Astrium Satellites, France), Raymond Soumagne (CNES, France)*
- Experiences in testing a Grid service in a production environment  
*Flavia Donno (CERN, Switzerland), Andrea Domenici (University of Pisa, Italy)*

### **Coffee break**

### **11:00 – 12:00 Fault tolerance**

- Fault Tolerant Middleware for Agent Systems: A Refinement Approach  
*Linas Laibinis, Elena Troubitsyna (Åbo Akademi University, Finland), Alexei Iliasov, Alexander Romanovsky (University of Newcastle, UK)*
- Application of Early Error Detection for Handling Degraded Modes of Operation  
*Thomas Robert, Jean-Charles Fabre, Matthieu Roy (LAAS-CNRS, Université de Toulouse, France)*
- Some Challenges in Adaptive Fault Tolerant Computing  
*François Taiani (Lancaster University, UK), Jean-Charles Fabre (LAAS-CNRS, Université de Toulouse, France)*

### **Lunch**

### **13:15 – 14:30 Rigorous development**

- Deriving Specifications of Dependable Systems: toward a Method  
*Manuel Mazzara (Newcastle University, UK)*
- Making Formal Verification Amenable to Real-Time UML Practitioners  
*Pierre de Saqui-Sannes (ISAE and LAAS-CNRS, France) , Ludovic Apvrille (Institut Telecom, France)*
- Standards-based Assessment of Development Toolchains in Safety-Critical Systems  
*Zoltán Szatmári (Budapest University of Technology and Economics, Hungary)*
- Criticality and Confidence Issues in Avionics  
*Youssef Laarouchi, Yves Deswarte, David Powell, Jean Arlat (LAAS - CNRS, Université de Toulouse, France), Eric de Nadai (Airbus, France)*

### **14:30 – 15:00 Concluding remarks**