EDCC 2010

Eighth European Dependable Computing Conference

Valencia, Spain,
April 27-30, 2010

EDCC 2010

Eighth European Dependable Computing Conference

Modern society increasingly relies on mission- and safety-critical computer systems whose failure can have extreme and catastrophic consequences. As the range and nature of computer technologies expand, insuring the dependability of these systems is becoming increasingly difficult, and must encompass a swathe of complementary approaches to provide emergent dependability properties such as quality of service, availability, survivability, confidentiality, and fault and intrusion tolerance. These efforts must further consider all phases of a system's life cycle, from its inception and design, through to its use, maintenance, and decommissioning.

Organised every two years, EDCC is the leading regional conference series to discuss advances on the dependability of computer systems in Europe. As in previous years, its eighth edition aims at providing a European-hosted venue for researchers and practitioners from all over the world to present and discuss their latest research results on fault-tolerance, dependability, security, and testing. Original papers are solicited on theory, techniques, systems, and tools for the design, validation, operation and evaluation of dependable and secure computing systems, covering any fault model, from traditional hardware and software faults to accidental and malicious human interactions.

GENERAL INFORMATION

Conference location

The EDCC conference will take place in the Ciudad Politécnica de la Innovación (CPI) on the Campus of the Universidad Politécnica de Valencia (UPV). A bus shuttle service will be available for attendees but in case you loose the bus or you plan to get to EDCC by your own, you need to ask to your taxi to bring you to "Universidad Politécnica de Valencia, Entrada de las Banderas en la calle Ingeniero Fausto Elio", which corresponds to the meeting point 7 in the map below.

The conference will be located at the **3rd floor of the CPI. So in order to get to that floor you should get the elevador located in access J of the CPI (next to the meeting point mentioned before)**.

In the following figure you will find different cubes of different colors. We will use code colors to locate where the various events of EDCC will be held. Here is a map of what the different existing cubes.
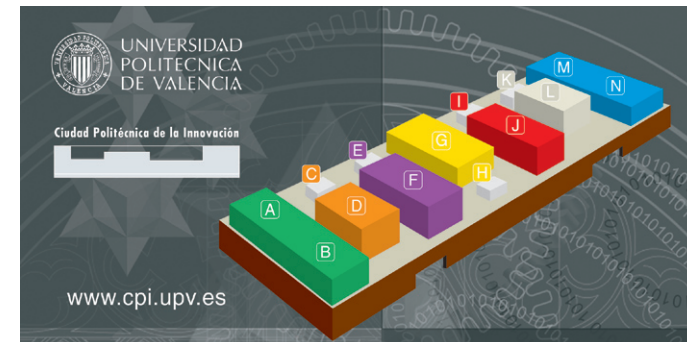
Location of sessions

All workshops will be held in cube Red (J). Fast Abstracts and Student Forum papers will be presented also in the red Cube (J), while presentation of regular papers, keynotes and conference opening and closing sessions will be organized in the auditorium of the Blue cube (N).

Breaks and Lunches

On April 27th, lunch and Breaks will be served in the purple (F) cube, while the rest of the conference days all lunches and breaks will be organizad in the hall of the Blue cube (N).

Welcome reception

At the end of the Workshops day (April 27th) all conference and Workshops attendees will be invited to a welcome reception, which will be held in the 39º27N restaurant, which is located next to "Las Arenas" Beach. A bus service will be available at the end of the day in order to bring everyone from the university to the restaurant, and then back to the conference Hotels.

Further information about the restaurant can be found in **http://www.3927.es**.

Social Event

On Thursday, April 29th, it is planned to go for a guided walk around the City downtown. A bus service will bring all attendees to their Hotels and then to the excursión meeting point.

Then, everyone will be invited to attend the conference banquet that will be help in "El huerto de Santa María", a restaurant located next to Valencia, in a village named "El Puig". Further information about the restaurant can be found in **http://www.huertodesantamaria.com**.

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Conference information

EDCC2010 AT A GLANCE

	Workshop day Tuesday, 27/04/2010			Conference day I Wednesday, 28/04/2010		Conference day II Thursday, 29/04/2010	Conference day III Friday, 30/04/2010
8:30-9:00	Workshop session I						
9:00-10:30	CARS		DYADEM	Conference opening session Keynote Talk 1 (Brendan Murphy, Microsoft Cambridge)		Keynote Talk 2 (José Duato, DISCA-UPV)	Conference session IV (I) Distributed Protocols
10:30-11:00	Break						
11:00-13:00	Workshop session II			Conference session I Fault injection	Student Forum & Fast Abstracts (session A)	Conference session VI Dependability modelling	Conference session IV (II) Distributed Protocols
	CARS		DYADEM			Conference session VII Embedded systems and hardware	Conference closing session
13:00-14:30	Lunch						
14:30-16:30	Workshop session III			Conference session I Middleware and mechanisms	Student Forum & Fast Abstracts (session B)	Conference session III Approaches and methodologies	
	CARS	DD4LCCI	DYADEM			Conference excursion & Dinner	
16:30-17:00	Break						
17:00-19:00	Workshop session IV			Conference session V Diagnosis and monitoring	Student Forum & Fast Abstracts (session C)		
	CARS	DD4LCCI	DYADEM				
19:00 - …	Welcome reception			Steering Committee Meeting & Dinner			

* Colors of sessions (Red and Blue) denote the building (CPI cubes) where such sessions will be held (For further information abo ut the CPI and the location o f its cubes, please chek the map on page 5)

J

N

WORKSHOP INFORMATION April 27th

Workshop CARS@EDCC2010
Critical Automotive applications: Robustness & Safety

The increasing range and complexity of automotive applications, the need to master development costs using off-the-shelf components, the coexistence of critical and non-critical applications, and the emergence of new architectural paradigms may have a strong impact on dependability of automotive embedded systems. This situation calls for novel design and validation methods, but also tools to improve the robustness of automotive systems and their safety properties. The evolution of automotive systems is currently supported by standards (like AUTOSAR and ISO26262) that respectively advocate a software architecture but also recommend specific development approaches.

The goal of the workshop is to bring together researchers and practitioners interested in the design, implementation and operation of critical automotive applications and systems. Particular emphasis will be put on dependability issues, software engineering for robustness, security and safety issues, real time embedded systems technologies, architectural solutions and development processes for dependable automotive embedded systems.

PROGRAMME

Morning

08:00-08:30	REGISTRATION
08:30-08:45	WELCOME ADDRESS
08:45-09:30	**KEYNOTE SPEECH** **ISO 26262: Challenge or chance in Automotive Industry** Speaker: Christoph Jung (Formerly BMW AG, now with CATS Software Tools GmbH, Germany) Chaired by Mario Trapp (Fraunhofer IESE, Kaiserslautern, Germany)
09:30-10:30	**SESSION 1: SAFETY AND DEVELOPMENT PROCESS** Chaired by Olivier Guetta (Renault TechnoCentre, Paris, France) • **Application of ISO DIS 26262 in Practice** Marc Born, Olaf Kath (ikv++ technologies ag Berlin, Germany), John Favaro (Intecs S.p.A. Pisa, Italy)

• **Automatic Allocation of Safety Integrity Levels**
Yiannis Papadopoulos, Martin Walker, (University of Hull, UK), David Servat (CEA-List DTSI/SOL/LISE, France), Rolf Johansson (Mentor Graphics, Sweden), Mark-Oliver Reiser (Technische Universität Berlin, Germany), A. Abele & F.Stappert (Continental Automotive GmbH, Germany), F. Tagliabo & S.Torchiaro (Centro Ricerche Fiat S.C.p.A.,Italy), D. Chen & M. Törngren (Royal Institute of Technology Stockholm, Sweden), H. Lonn & L. Berntsson (Volvo Technology Corp.,Sweden), Matthias Weber (Carmeq AG, Germany)
• **Requirement traceability in safety critical systems**
Marie-Agnès Peraldi-Frati (CNRS, University of Nice Sophia-Antipolis, INRIA, France), Arnaud Albinet (Continental Automotive SAS Toulouse, France)

10:30-11:00	BREAK
11:00-12:00	**SESSION 2: ARCHITECTURE FOR ROBUSTNESS** Chaired by Johan Karlsson (Chalmers University of Technology, Göteborg, Sweden) • **Memory Protection at Option** Michael Stilkerich, Daniel Lohmann, Wolfgang Schröder-Preikschat (Friedrich-Alexander University Erlangen-Nuremberg, Germany) • **A Road-Map for Enabling System Analysis of AUTOSAR-Based Systems** Stefan Bunzel (Continental Automotive Frankfurt, Germany), Marc Graniou (PSA Peugot Citroën Vélizy, France), Rolf Johansson (Mentor Graphics Göteborg, Sweden), Henrik Lönn (Volvo Technology Göteborg, Sweden), Håkan Sivencrona (Mecel Engine Systems Göteborg, Sweden), Friedhelm Stappert (Continental Automotive Regensburg, Germany) • **Temporal isolation for the cohabitation of applications in automotive embedded software** Dominique Bertrand, Sebastien Faucou, Yvon Trinquet (IRCCyN, Université de Nantes, France)
12:00-12:45	**WRAP-UP / DISCUSSION SESSION** Open discussion of morning sessions Chaired by: Mario Trapp, Olivier Guetta, Johan Karlsson
13:00-14:30	LUNCH

Afternoon

14:30-15:30

WORK IN PROGRESS SESSION
Chaired by Jean-Charles Fabre (LAAS-CNRS, INPT / University of Toulouse, France)
· **A Calculation Method for Software Safety Integrity Level**
Takaji Fujiwara, Juan Manuel Estevez (Business Cube & Partners, Inc, Japan), Yoshinobu Satoh, Shigeru Yamada (Tottori University, Japan)
· **Towards Verification-based Development of In-Vehicle afety Critical Software: A Case Study**
Martijn M.H.P. van den Heuvel, Reinder J. Bril (Techniische Universiteit Eindhoven, The Netherlands), Peter van de Velde (Verum B.V., The Netherlands), Johan J. Lukkien (Technische Universiteit Eindhoven, The Netherlands)
· **Unambiguous Semantics in Automotive Timing Modelling**
Johan Nordlander (Lulea University, Sweden), Rolf Johansson (Mentor Graphics, Sweden), Risat Mahmud Pathan (Chalmers University, Sweden)
· **Enforcing Trust in Control Automotive Platforms**
Christophe Jouvray, Grégoire Chartier, Nicolas François (Trialog, France), Ismael Ripoll, Miguel Masmano, Alfons Crespo (Universidad Politecnica de Valencia, Spain)
· **VESBA – A Middleware Oriented Architecture for Virtualized Embedded Systems**
Artur Schiefer, Gruhn Volker, Hrushchak Ruslan (Lieipzig University, Germany)

15:30-16:30

SESSION 3: DESIGN AND VALIDATION
Chaired by Yiannis Papadopoulos (University of Hull, UK)
· **Use of Formal Methods for Building Qualified Code Generator for Safer Automotive Systems**
Nassima Izerrouken (Continental Automotive, Université de Toulouse/IRIT, France), Olivier Ssi Yan Kai (Continental Automotive Toulouse, France), Marc Pantel (Université de Toulouse/IRIT, France), Xavier Thirioux (Université de Toulouse/IRIT, France)
· **Conditional Safety Guarantees in Open Systems**
Daniel Schneider, Mario Trapp (Fraunhofer Institute for Experimental Software Engineering, IESE Kaiserslautern, Germany)
· **Opportunities from Standardization in Automotive Safety Assessment**
Raul Barbosa, Johan Karlsson (Chalmers University of Technology Göteborg, Sweden)

16:30-17:00

BREAK

17:00-18:00

SESSION 4: SCHEDULING AND REAL-TIME
Chaired by Juan-José Serrano Martín (Universidad Politécnica de Valencia, Spain)
· **Experimentation of WCET computation on both ends of automotive processor range**
Hugues Cassé, Pascal Sainrat, Clément Ballabriga, Marianne De Michiel (Université de Toulouse, IRIT, France)
· **Tree scheduling versus sequential scheduling**
Christian Fotsing, Annie Geniet (LISI, ENSMA, France), Guy Vidal-Naquet (Supelec, France)
· **Enabling Mode Changes in a Distributed Automotive System**
Martin Mitzlaff (Ingolstadt Institute of the Friedrich-Alexander University Erlangen-Nuremberg, Germany), Rüdiger Kapitza, Wolfgang Schröder-Preikschat (Friedrich-Alexander University Erlangen-Nuremberg, Germany)

18:00-18:45

WRAP-UP / DISCUSSION SESSION
Open discussion of afternoon sessions
Chaired by: Jean-Charles Fabre, Yiannis Papadopoulos, Juan-José Serrano Martin

18:45-19:00

CLOSING ADDRESS

DYADEM-FTS 2010
The First International Workshop on Dynamic Aspects in Dependability Models for Fault-Tolerant Systems

The dependability of fault-tolerant systems is usually quantified by using stochastic models which compute the system's dependability from the properties of its components. Most frequently, combinatorial analytic techniques like fault trees or reliability block diagrams are used for this purpose.

The above-mentioned techniques are very mature and well understood both in industry and the academic environments. However, their classical solution methods only work for Boolean components and Boolean systems with a static behavior, and only under the assumption that there are no dependencies and interactions between the components of the system.

Examples of important properties which cannot be modeled using classical techniques are dependent, cascading and common cause events, imperfect fault coverage, error propagation, load sharing, standby-redundancy, delayed models, multi-phase systems, limited repair facilities and corresponding

policies, ageing effects, and so on. Therefore, the classical solution methods based on simplified assumptions can provide inaccurate or even dangerously over-optimistic results.

It is the aim of the workshop to discuss novel ideas, methods, algorithms, and software tools for in-depth studies of these dynamic aspects of dependable-fault tolerant systems.

PROGRAMME

09.00 - 09.30   Welcome and Opening Session (chair: Max Walter)

09.30 - 11.00   **TUTORIAL**
                       Dynamic Dependability Models: an Overview
                       Suprasad Amari

11.00 - 11.30   Coffee Break

11.30 - 13.00   **SESSION I** (chair: Marc Bouissou)
                       • A Hierarchical Method for the Reduction of Temporal Expressions in Pandora
                       Martin Walker and Yiannis Papadopoulos:
                       • Symbolic calculation of k-shortest paths and related measures with the stochastic process algebra tool CASPA
                       Michael Günther, Johann Schuster and Markus Siegle
                       • Characterization and Evaluation of Standby in Reliability
                       Salvatore Distefano

13.00 - 14.30   LUNCH

14.30 - 15.30   **SESSION II** (chair: Salvatore Distefano)
                       • Dependability analysis of Wireless Sensor Networks with active-sleep cycles and redundant nodes
                       Dario Bruneo, Antonio Puliafito and Marco Scarpa
                       • Dependability Evaluation of Complex Systems With TimeNET (tool presentation)
                       Armin Zimmermann
                       • Dependability modelling with the stochastic process algebra tool CASPA (tool presentation)
                       Johann Schuster and Markus Siegle

15.30 - 16.00   Coffee Break

16.00 - 17.00   **SESSION III** (chair: to be announced)
                       • OpenSESAME - The Simple but Extensive, Structured Availability Modeling Environment (tool presentation)
                       Max Walter
                       • The KB3-BDMP (Boolean logic Driven Markov Processes) © tool and its applications (tool presentation)
                       Marc Bouissou
                       • RobuCheck: A Robustness Checker for Digital Circuits (tool presentation)
                       Stefan Frehse, Goerschwin Fey, Andre Suelflow and Rolf Drechsler
                       • DyRelA (Dynamic Reliability and Assessment) (tool presentation)
                       Gabriel Antonio Pérez Castañeda, Jean-François Aubry and Nicolae Brinzei

17.00 - 17.30   Coffee Break

17.30 - 19.00   **EXTENDED HANDS-ON TOOL SESSION**
                       (in addition, tools will also be presented/discussed in the coffee breaks)

1st International Workshop on Data Dissemination for Large scale Complex Critical Infrastructures (DD4LCCI 2010)

This workshop aims at providing a forum for researchers and engineers in academia and industry to foster an exchange of research idead, results, experiences, and products in the area of reliable, timely and scalable data dissemination in large-scale critical systems from a middleware support perspective. The scope is to envision new trends and ideas about theoretical and practical aspects of designing, implementing, and evaluating future data distribution platforms for the next generation critical networked infrastructures.

PROGRAMME

14:30-16:30:   **KEYNOTE TALK & INDUSTRIAL EXPERIENCE**
                       Session Chair: Domenico Cotroneo
                       • Data Dissemination supporting collaborative complex event processing: characteristics and open issues
                       Roberto Baldoni, University of Rome La Sapienza

**• Data distribution technologies in wide area systems: lessons learned
from the SWIM-SUIT project experience**
Gabriella Carrozza, Dario Di Crescenzo and Antonio Strano

16:30-17:00	BREAK

17:00-18:40   **SESSION 2: Research on Publish/Subscribe Middleware in large-scale
systems Session**
Chair: Christian Esposito
**• Redefinable Events for Dynamic Reconfiguration of Communications in
Ubiquitous Computing**
Carlos Rodríguez-Domínguez, Kawtar Benghazi, Manuel Noguera and
José Luis Garrido
**• Adapting and Evaluating Distributed Real-time and Embedded Systems in
Dynamic Environments**
Joe Hoffert, Douglas Schmidt and Anirudha Gokhale
**• Adaptive Parallel Computing for Large-scale Distributed and Parallel
Applications**
Jaiganesh Balasubramanian, Alexander Mintz, Andrew Kaplan, Grigory Vilkov,
Artem Gleyzer, Antony Kaplan, Ron Guida, Pooja Varshneya and Douglas C.
Schmidt
[Invited paper] Angelo Corsaro

18:40-19:00   **DISCUSSIONS & WORKSHOP END**

CONFERENCE INFORMATION April 28th-30th

Morning

8:00-9:00	Registration	
9:00-10:30	**Conference Opening and Keynote 1:** (Chair: Karama Kanoun) **Brendan Murphy (Microsoft Research Centre in Cambridge)**	
10:30-11:00	Break	
11:00-13:00	**Session 1: Fault Injection** (Chair: Cristian Constantinescu) 　**• Comparing and Validating 　Measurements of Dependability 　Attributes.** 　Daniel Skarin, Raul Barbosa and 　Johan Karlsson 　**• Slice Your Bug: Debugging Error 　Detection Mechanisms using Error 　Injection Slicing.** 　Ute Schiffel, André Schmitt, Martin 　Süßkraut and Christof Fetzer 　**• Emulation of Transient Software 　Faults for Dependability As- 　sessment: A Case Study.** 　Roberto Natella and Domenico 　Cotroneo 　**• Evaluating and comparing the 　impact of software faults on web 　servers.** 　Naaliel Mendes, Joao Duraes and 　Henrique Madeira	**Fast Abstracts & Student Forum (Session A): Architectures, platforms, and mecha- nisms** (Chair: Juan Carlos Ruiz) 　**• Generic Interface to a Safe Processing 　Platform.** 　Karsten Hoffmeister, Rafael Zalman, 　Marc Graniou and Bertrand Delord 　**• A Proposal of a Fault-Tolerant Mecha- 　nism for Microprocessor Buses.** 　Luis-J. Saiz-Adalid, J.-Carlos Baraza- 　Calvo, Joaquin Gracia-Moran and Daniel 　Gil-Tomas 　**• Dependable IP based messaging for 　real-time control over challenged 　wireless networks.** 　Jaime Martin Losa 　**• e-NOTIFY: A Proposal to Improve 　the Responsiveness of Emergency 　Services.** 　Francisco J. Martinez, Juan C. Cano, 　Carlos T. Calafate, Pietro Manzoni and 　Jose M. Barrios 　**• About the Feasibility of Transactional 　Support in Cloud Computing.** 　Francisco Maia, Rui Oliveira and José 　Enrique Armendáriz-Iñigo 　**• Vertical integration on Real-Time 　Ethernet: A proposal.** 　F.-Javier Sánchez-Bolumar, Juan-Carlos 　Baraza, Juan-Carlos Ruiz and Pedro Gil 　**• A reliable distributed desktop for 　collaborative environments.** 　Carlos Gómez-Calzado

Afternoon

| 14:30-16:30 | Session 2: Middleware and mechanisms (Chair: Algirdas Avizienis)

• **Towards On-Line Adaptation of Fault Tolerance Mechanisms.**
Jean-Charles Fabre, Marc-Olivier Killijian and Thomas Pareaud
• **Scalability Evaluation of the Replication Support for JOnAS, an Industrial J2EE Application Server (Practical Experience Report).**
Alberto Paz, Francisco Perez-Sorrosal, Marta Patino-Martinez and Ricardo Jimenez-Peris
• **On Hardware Resource Consumption for Aspect-Oriented Implementation of Fault Tolerance (Practical Experience Report).**
Ruben Alexandersson and Peter Öhman
• **Partitioned Embedded Architecture based on Hypervisor: the XtratuM approach (Prototype-Tool description).**
Ismael Ripoll, Miguel Masmano and Alfons Crespo | Fast Abstracts & Student Forum (Session B): Formal methods, verification, and tool support (Chair: Marco Vieira)

• **Enhancing Program Verification for SPARK**
Eduardo Brito, Luís Pinto and Jorge Sousa Pinto
• **Towards a Worst-Case Execution Time Calculation Platform with Certificate Production**
Diogo Fialho, Nuno Gaspar, Simão Sousa, Jorge Pinto and Rogério Reis
• **Formal Modeling of Safety Requirements in the Model-Driven Development of Safety Critical Embedded Systems**
Dominik Sojer, Alois Knoll and Christian Buckl
• **System Architecture, Dependability and Modes**
Linas Laibinis, Elena Troubitsyna, Alexei Iliasov and Alexander Romanovsky
• **Robots, Software, Mayhem? Towards a Design Methodology for Robotic Software Systems**
Dietmar Schreiner and Franz Puntigam
• **Abortable Consensus for Group Membership in Partitionable Systems**
Léon Lim |
| 16:30-17:00 | **Break** | |

| 17:00-19:00 | Session 5: Diagnosis and monitoring (Chair: Luca Simoncini)

• **Assessing the Impact of Imperfect Diagnosis on Service Reliability: A Parsimonious Model Approach.**
Jesper Grønbæk, Hans-Peter Schwefel, Jens Kristian Kjærgård and Thomas S. Toftegaard
• **Analysis of Inter-Module Error Propagation Paths in Monolithic Operating System Kernels.**
Roberto Jung Drebes and Takashi Nanya
• **Narrowing Down Possible Causes of Performance Anomaly in Web Applications (Practical Experience Report).**
Satoshi Iwata and Kenji Kono
• **Finding Error Handling Bugs in OpenSSL using Coccinelle (Practical Experience Report).**
Julia Lawall, Ben Laurie, René Rydhof Hansen, Nicolas Palix and Gilles Muller | Fast Abstracts & Student Forum (Session C): Testing, fault and attack injection, and benchmarking (Chair: Dietmar Schreiner)

• **Improvement of the fault injection effectiveness rate on data memory area**
Carlos Carrión, Nacho Piqueras, Pedro Yuste, Rafael Ors and Juan Jose Serrano
• **Resilience Benchmarking for Self-Adaptive Systems: A Research Challenge**
Raquel Almeida and Marco Vieira
• **On-line wire diagnosis for vehicles**
Marc Olivas Carrion
• **An attack-goal driven approach for web applications security assessment**
Rim Akrout and Anthony Dessiatnikoff
• **Towards Benchmarking Software Requirements Documentation for Space Applications**
Paulo Véras, Emilia Villani, Ana Ambrosio, Marco Vieira and Henrique Madeira
• **Key Factors for Attack Injection on MANETs: Towards Enhancing Experiment Representativeness**
Jesús Friginal, David de Andrés, Juan-Carlos Ruiz and Pedro Gil |

Morning

8:00-9:00	Registration
9:00-10:30	**Keynote 2: (Chair: Francois Taiani)** **Prof. Jose Duato Marín (Universidad Politécnica de Valencia)**
10:30-11:00	Break

11:00-12:00	**Session 6: Dependability modelling**
	(Chair: Felicita Di Giandomenico)
	
	• **Beyond attack trees: dynamic security modeling with Boolean logic Driven Markov Processes (BDMP).**
	   Ludovic Piètre-Cambacédès and Marc Bouissou
	• **Online Monitoring of Software System Reliability.**
	   Roberto Pietrantuono, Stefano Russo and Kishor S. Trivedi

12:00-13:00	**Session 7: Embedded systems and hardware**
	(Chair: David de Andrés Martínez)
	
	• **Codesign and simulated fault injection of safety-critical embedded systems using System**
	   C. Jon Perez, Mikel Azkarate-Askasua and Antonio Perez
	• **How to Speed-up Fault-Tolerant Clock Generation in VLSI Systems-on-Chip via Pipelining**
	   Matthias Függer, Andreas Dielacher and Ulrich Schmid

Afternoon

14:30-16:00	**Session 3: Approaches & Methodologies**
	(Chair: Jean-Claude Laprie)
	
	• **Software Process Synthesis in Assurance Based Development of Dependable Systems.**
	   Patrick Graydon and John Knight
	• **Towards Understanding the Importance of Variables in Dependable Software.**
	   Matthew Leeke and Arshad Jhumka
	• **Reliability and availability requirements engineering within the Unified Process using a Dependability Analysis and Modeling profile.**
	   Simona Bernardi, José Merseguer and Robyn Lutz

16:00 - …	**Social Event: Excursion and dinner**

29 April

30 April

Morning

9:00-10:30	**Session 4 (I): Distributed Protocols**
	(Chair: Mikel Larrea)
	
	• **Early Consensus in Message-passing Systems Enriched with a Perfect Failure Detector and its Application in the Theta Model.**
	  François Bonnet and Michel Raynal
	• **HP: Hybrid Paxos for WANs.**
	  Dan Dobre, Matthias Majuntke, Marco Serafini and Neeraj Suri
	• **Eventual Leader Election in Infinite Arrival Message-passing System Model with Bounded Concurrency.**
	  Sara Tucci-Piergiovanni and Roberto Baldoni

10:30-11:00	Break

11:00-12:30	**Session 4 (II): Distributed Protocols**
	(Chair: Ricardo Jimenez Peris)
	
	• **D2HT: the best of both worlds Integrating RPS and DHT.**
	  Marin Bertier, François Bonnet, Anne-Marie Kermarrec, Vincent Leroy, Sathya Peri and Michel Raynal
	• **Dependability Analysis of Diffusion Protocols in Wireless Networks with Heterogeneous Node Capabilities.**
	  Paolo Masci, Silvano Chiaradonna and Felicita Di Giandomenico
	• **A Membership Service for a Distributed, Embedded System based on a Time-Triggered FlexRay Network (Industrial Track Paper).**
	  Martin Mitzlaff, Rüdiger Kapitza, Michael Lang and Wolfgang Schröder-Preikschat

12:30-13:00	**Closing Session**

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