

Programme of ACCAT

Applied and Computational Category Theory

Sunday, March 25, room: CP2-103

09:00 - 10:15 SESSION 1

- Introduction
- Generalized Sketches - A Universal Pattern for Diagrammatic Specification
Uwe Wolter
- Dynamics and Cohesion in Finite Toposes
William Lawvere

10:15 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

- Normalized Coalgebras for Dynamic Bisimilarity
Ugo Montanari
- Structured Co-spans: Algebraic Modelling of Interaction Protocols
José Fiadeiro
- Iterative Algebras
Jiri Adamek

12:30 - 14:00 Lunch

15:00 - 16:00 SESSION 3

- A Categorical Model of Computation for Graph Transformation: True Concurrency and Logic
Reiko Heckel
- Adhesive High-Level Replacement Systems with Negative Application Conditions
Leen Lambers
- Composing DPO Transformations with Borrowed Context
Paolo Baldan
- Algebraic High-Level Systems as Weak Adhesive HLR Categories
Ulrike Prange

16:00 - 16:30 Coffee Break

16:30 - 18:00 SESSION 4

- Categories in the Design of Aldor
Stephen Watt
- (tba)
Vladimiro Sassone
- (tba)
Jochen Pfalzgraf

Programme of Bytecode

Second Workshop on Bytecode Semantics, Verification, Analysis and Transformation

Saturday, March 31, room: CP2-103

09:00 - 10:30 SESSION 1

Session Chair: Marieke Huisman

- Invited Talk: Modular verification of object invariants in Spec#
Peter Müller (ETH Zurich)
- Type Systems for optimising Stack-based Code
Tarmo Uustalu and Ando Saabas (Tallinn University of Technology, Estonia)

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

- Proving Resource Consumption of Low-level and Programs using Automated Theorem Provers
Jaroslav Sevcik (University of Edinburgh, UK)
- Formal Translation of Bytecode into BoogiePL
Hermann Lehner and Peter Müller (ETH, Zurich, Switzerland)
- Bytecode Rewriting in Tom
Emilie Balland, Pierre-Etienne Moreau and Antoine Reilles (Loria, France)

12:30 - 14:00 Lunch

14:00 - 16:00 SESSION 3

Session Chair: Peter Müller

- Translate One, Analyze Many: Leveraging the Microsoft Intermediate Language and Source Code Transformation for Model Checking
Jesse McGeachie and Juergen Dingel (Queen's University, Canada)
- Practical Assessment of Cost Analysis for Java Bytecode
Samir Genaim, Puri Arenas, Damiano Zanardini, German Puebla and Elvira Albet (Universidad Politécnica de Madrid, Universidad Complutense de Madrid, Spain)
- MMC: the Mono Model Checker
Theo Ruys and Niels H.M. Aan de Brugh (University of Twente, The Netherlands)
- Improving the Decompilation of Java Bytecode to Prolog by Partial Evaluation
Miguel Gomez-Zamalloa, Elvira Albert and German Puebla (Universidad Politécnica de Madrid, Universidad Complutense de Madrid, Spain)

16:00 - 16:30 Coffee Break

16:30 - 17:30 SESSION 4

Session Chair: Fausto Spoto

- Computing SSA Form with Matrices
Quan Nguyen and Bernhard Scholz (University of New South Wales, University of Sydney, Australia)
- An Efficient, Parametric Fixpoint Algorithm for Incremental Analysis of Java Bytecode
Mario Méndez, Jorge Navas and Manuel Hermenegildo (University of New Mexico, USA)

Programme of COCV

Compiler Optimization meets Compiler Verification

Sunday, March 25, room: CP2-108

09:00 - 10:30 SESSION 1

Opening

- Jens Knoop, Vienna University of Technology

Invited Talk

- High-Level vs. RTL Equivalence Checking: Why the Next Big Success of Formal Verification Needs COCV
Alan Hu, University of British Columbia, Canada

10:30 - 11:00 Coffee Break

11:00 - 12:00 SESSION 2

- Specify, Compile, Run: Hardware from PSL
Bloem, Galler, Jobstmann, Piterman, Pnueli, Weiglhofer (Graz University of Technology, Austria; EPFL Lausanne, Switzerland; Weizmann Institute, Israel)

12:30 - 14:00 Lunch

14:00 - 16:00 SESSION 3

- Distilling Programs for Verification
Geoff Hamilton (Dublin City University, Ireland)
- On-the-Fly Data Flow Analysis based on Verification Technology
María del Mar Gallardo, Christophe Joubert and Pedro Merino (University of Málaga, Spain)

16:00 - 16:30 Coffee Break

16:30 - 18:00 SESSION 4

- Generating Java Compiler Optimizers Using Bidirectional CTL
Ling Fang and Masataka Sassa (Tokyo Institute of Technology, Japan)
- A Certifying Code Generation Phase
Jan Olaf Blech and Arnd Poetzsch-Heffter (University of Kaiserslautern, Germany)

16:30 - 18:00 Closure

Programme of FESCA

Formal Foundations of Embedded Software and Component-Based Software Architectures

Saturday, March 24, room: CP2-108

09:00 - 10:30 SESSION 1

Introductory Remarks

Invited Talk

- SENSORIA: Semantic-based Development of Service-Oriented Systems
Martin Wirsing (LMU)

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

Formal models for component-based assembly

- A True-Concurrent Interpretation of Behavioural Scenarios
Sotiris Moschogiannis, Paul Krause and Michael Shields
- Trustworthy interface compliancy: data model adaptation using B refinement
Samuel Colin, Arnaud Lanoix, Jeanine Souquieres
- Towards Component Verification in the Generic Component Framework
Julia Padberg, Hartmut Ehrig, Fernando Orejas

12:30 - 14:00 Lunch

14:00 - 16:00 SESSION 3

Behavioural models

- DeSpec: Modeling the Windows Driver Environment
Tomas Matousek and Pavel Jezek
- WCET Analysis of Data Dependent, Component Oriented, Embedded Software Systems
Peter Szulman
- Composing Modal Properties of Programs with Procedures
Marieke Huisman, Dilian Gurov

16:00 - 16:30 Coffee Break

16:30 - 17:30 SESSION 4

Contractual runtime verification

- A Formal Semantics for a Quality of Service Contract Language
Fabricio Chalub, Alexandre Sztajnberg
- Executable Contracts for Incremental Prototypes of Embedded Systems
Lionel Morel and Louis Mandel

17:30 Concluding Remarks

Programme of FinCo

Foundations of Interactive Computation

Saturday, March 31, room: CP2-106

09:00 - 10:30 SESSION 1

Welcome

Invited Talk

- Event-driven Design in Practice and Theory
Bertrand Meyer, ETH Zurich and Eiffel Software

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

Specification and Analysis of Interactive Agents

- A Formal Framework for Interactive Agents
Carolyn L. Talcott (SRI International, USA)
- Observable Behavior of Dynamic Systems: Component-Based Reasoning for Concurrent Objects
Johan Dovland, Einar Broch Johnsen, and Olaf Owe (Univ. Oslo, Norway)

12:30 - 14:00 Lunch

14:00 - 16:00 SESSION 3

Modeling Interaction

- Interaction in Time and Space
Gabriel Ciobanu (A.I.Cusa Univ., Romania)
- Validating for Liveness in Hidden Adversary Systems
Saikat Mukherjee, Srinath Srinivasa, and SatishChandra D. (IIIT Bangalore, India)
- AGAPIA v0.1: A Programming Language for Interactive Systems and its Typing System
Cezara Dragoi and Gheorghe Stefanescu (Univ. Bucharest, Romania)

16:00 - 16:30 Coffee Break

16:30 - 18:30 SESSION 4

Programming Languages for Interactive Computing

- Programming Languages for Interactive Computing
Roly Perera

Panel Discussion

- Models and Languages for Interactive Systems
all speakers

Closing

- Dina Goldin (Brown University, USA)

Programme of GT-VMT

Sixth International Workshop on Graph
Transformation and Visual Modeling Techniques

Saturday, March 31, room: CP2-101

09:00 - 10:30 SESSION 1

Opening

Invited Talk

- Membrane Computing [and Graph Transformation]
Gheorghe Paun (Romanian Academy and Sevilla University, Spain)

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

Verification and Model Transformation

- Rule-Level Verification of Business Process Transformations using CSP
Dénes Bisztray, Reiko Heckel
- Bisimulation Verification for the DPO Approach with Borrowed Contexts
Guilherme Rangel, Barbara König, Hartmut Ehrig
- Transforming Collaborative Service Specifications into Efficiently Executable State Machines
Frank Alexander Kraemer, Peter Herrmann

12:30 - 14:15 Lunch

14:15 - 16:00 SESSION 3

Pattern Matching

- Ensuring Containment Constraints in Graph-based Model Transformation Approaches (Short Talk)
Christian Köhler, Holger Lewin, Gabriele Taentzer
- Generic Search Plans for Matching Advanced Graph Patterns
Ákos Horváth, Gergely Varró, Dániel Varró
- A Query Language With the Star Operator
Johan Lindqvist, Torbjörn Lundkvist, Ivan Porres
- Triple Patterns: Compact Specifications for the Generation of Operational Triple Graph Grammar Rules
Juan de Lara, Esther Guerra, Paolo Bottoni

16:00 - 16:30 Coffee Break

16:30 - 18:00 SESSION 4

Graph Transformation Language Operations

- A Subgraph Operator for Graph Transformation Languages
Daniel Balasubramanian, Anantha Narayanan, Sandeep Neema, Feng Shi, Ryan Thibodeaux, Gabor Karsai
- Adding Recursion to Graph Transformation
Esther Guerra, Juan de Lara
- Visual Programming with Recursion Patterns in Interaction Nets
Ian Mackie, Jorge Sousa Pinto, Miguel Vilaça
- Simulating Multi-graph Transformations Using Simple Graphs (Short Talk)
Frank Hermann, Harmen Kastenberg, Iovka Boneva, Arend Rensink

Sunday, April 1, room: CP2-101

09:00 - 10:30 SESSION 1

Invited Talk

(to be announced)

10:30 - 11:00 Coffee Breaks

11:00 - 12:30 SESSION 2

Application of Graph Transformations

- Evaluating Workflow Definition Language Revisions with Graph-Based Tools
René Wörzberger, Markus Heller, Frank Häßler
- Graph Based Engineering Systems - A Family Of Software Applications And their Underlying Framewor (Short Talk)
Gregor Wrobel, Ralf-Erik Ebert, Matthias Pleßow
- Imposing Hierarchy on a Graph (Short Talk)
Brendan Sheehan, Benoit Gaudin, Aaron Quigley
- The Jury is still out: A Comparison of AGG, Fujaba, and PROGRES (Short Talk)
Ulrike Ranger, Christian Fuß, Christof Mosler, Erhard Schultchen

12:30 - 14:15 Lunch

14:15 - 16:00 SESSION 3

Working Groups

- Building of Working Groups
- Discussion in Working Groups
- General Discussion of the Results

Closing

Programme of HAV

Heap Analysis and Verification

Sunday, March 25, room: CP2-104

09:00 - 10:30 SESSION 1

- Footprint Analysis: A Shape Analysis that Discovers Preconditions (Invited Lecture)
Hongseok Yang
- Proof Systems for Inductive Reasoning in the Logic of Bunched Implications
James Brotherston

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

- A Logic of Reachable Patterns (Invited Lecture)
Greta Yorsh
- Verifying Complex Properties using Symbolic Shape Analysis
Thomas Wies, Viktor Kuncak, Karen Zee, Martin Rinard and Andreas Podelski

12:30 - 14:00 Lunch

14:00 - 16:00 SESSION 3

- Alias Control with Universe Types (Invited Lecture)
Peter Müller
- Inferring Local (Non-)Aliasing and Strings for Memory Safety
Yannick Moy and Claude Marché
- Reasoning about Sequences of Memory States
Brochenin Rémi, Demri Stéphane and Lozes Étienne

16:00 - 16:30 Coffee Break

16:30 - 18:00 SESSION 4

- Liveness of Heap Data for Functional Programs
Amey Karkare, Uday Khedker and Amitabha Sanyal
- Separation Analysis for Deductive Verification
Thierry Hubert and Claude Marché
- Verifying Concurrent List-Manipulating Programs by LTL Model Checking
Stefan Rieger, Thomas Noll and Joost-Pieter Katoen
- Towards Regional Logic (Invited Lecture)
David Naumann

Programme of HFL

Hardware design using Functional Languages

Saturday, March 24, room: CP2-110

09:00 - 10:30 SESSION 1

- Introducing Scheduling Primitives and Derived Interfaces in Bluespec
Arvind, Nirav Dave, and Michael Pellauer (MIT)
- Declarative Programming Techniques for Many-Core Architectures
Satnam Singh (Microsoft Research Cambridge)

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

- Searching for prefix networks to fit in a context using a lazy functional programming language
Mary Sheeran (Chalmers)
- The E Language
Robert S. Boyer and Warren A. Hunt, Jr. (University of Texas)

12:30 - 14:30 Lunch and time for discussion

14:30 - 16:00 SESSION 3

- A framework for designing hardware in Ocaml
Andrew K. Martin and Ahmed Gheith (IBM)
- High-Level Micro-Architectural Transformations and Cycle-Accurate High-Level Models
Carl-Johan H. Seger (Intel)

16:00 - 16:30 Coffee Break

16:30 - 18:00 SESSION 4

- Functional Programming for Hardware Definition, Verification and Modelling
Nathan Chong and Samin Ishtiaq (ARM)
- Program Transformation for Functional Circuit Descriptions
Manfred Schmidt-Schau's and David Sabel (Johann Wolfgang Goethe-Universit"st)

Sunday, March 25, room: CP2-110

09:00 - 10:30 SESSION 1

- Embedded Hardware Description Languages: Exploring the Design Space
Koen Claessen (Chalmers) and Gordon Pace (University of Malta)
- Lightweight Relational Programming for Wired
Matthew Naylor (University of York), Emil Axelsson (Chalmers), and Colin Runciman (University of York)

10:30 - 11:45 Coffee Break and Demos

11:45 - 12:30 SESSION 2

- Towards Automatically Compiling Efficient FPGA Hardware
Jean Baptiste Note and Jean Vuillemin (Ecole Normale Supérieure Paris)

12:30 - 14:30 Lunch and time for discussion

14:30 - 16:00 SESSION 3

- Design Principles for Hardware Description
Tim Sheard (Portland State University)
- Hardware descriptions as two-level computations
Walid Taha, Yousra Alkabani, Cherif Andraos, Jennifer Gillenwater, Gregory Malecha and Angela Yun Zhu (Rice University) and Jim Grundy and John O'Leary (Intel)

15:15 - 16:30 Coffee, demos, planning of next workshop

Programme of LDTA

Seventh Workshop on Language Descriptions, Tools and Applications

Sunday, March 25, room: CP2-111

09:00 - 10:30 SESSION 1

Welcome and Introduction

Invited Talk

- Collaboration-Based Composition of Languages
Uwe A'smann

Research Talk

- Language Parametric Module Management
Paul Klint, Taeke Kooiker, Jurgen Vinju

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

Research Talk

- Fusing a Transformation Language with an Open Compiler
Karl Trygve Kalleberg, Eelco Visser

Experience Report

- Implementing a Domain-Specific Language using Stratego/XT
Leonard Hamey, Shirley Goldrei

Tool Demonstration

- Spoofox: An Interactive Development Environment for Program Transformation with Stratego/XT
Karl Trygve Kalleberg, Eelco Visser

12:30 - 14:00 Lunch

14:00 - 16:00 SESSION 3

Research Talk

- SPPF-Style Parsing From Earley Recognisers
Elizabeth Scott

Experience Report

- An Experimental Ambiguity Detection Tool
Sylvain Schmitz

Research Talk

- Grammar Engineering Support for Precedence Rule Recovery and Compatibility Checking
Eric Bouwers, Martin Bravenboer, Eelco Visser

Tool Demonstration

- SdfMetz: Extraction of Metrics and Graphs From Syntax Definitions
Tiago Alves, Joost Visser

16:00 - 16:30 Coffee Break

16:30 - 18:15 SESSION 4

Research Talk

- Silver: an Extensible Attribute Grammar System
Eric Van Wyk, Derek Bodin, Jimin Gao, Lijesh Krishnan

Experience Report

- Development of a Modelica Compiler using JastAdd
Johan Åkesson, Torbjörn Ekman, Görel Hedin

Tool Demonstration

- A Domain-Specific Language Debugging Framework Demonstration
Hui Wu, Jeff Gray, Marjan Mernik

Discussion and Closing

Programme of MOMPES

4th International Workshop on Model-based Methodologies for Pervasive and Embedded Software

Saturday, March 31, room: CP2-108

09:00 - 10:00 SESSION 1

Opening and Welcome Session

Invited Talk

- On the Applicability Scope of Model Driven Engineering
Jean Bézivin

10:00 - 10:40 SESSION 2

Pervasive Systems

- Towards a Model-Driven Approach for Ontology-Based Context-Aware Application Development: A Case Study
Nektarios Georgalas, Shumao Ou, Manooch Azmoodeh, Kun Yang
- Tool Support for Model Driven Development of Pervasive Systems
Carlos Cetina, Estefanía Serral, Javier Muñoz, Vicente Pelechano

10:40 - 11:00 Coffee Break

11:00 - 11:40 SESSION 3

Modelling Approaches

- A Generic Execution Framework for Models of Computation
Cécile Hardebolle, Frédéric Boulanger, Dominique Marcadet, Guy Vidal-Naquet
- UML Profile for eXtreme Modeling Interactive Systems
Alberto Rodrigues da Silva, João Saraiva, Rui Silva, Carlos Martins

11:40 - 12:20 SESSION 4

Formal Approaches (Chair: Ridha Khedri)

- Model-Driven Consistency Checking of Behavioural Specifications
Bas Graaf, Arie van Deursen
- Challenges when using Model Driven Architecture in the Development of Safety Critical Software
Philippa Conmy, Richard F. Paige

12:30 - 14:30 Lunch

14:30 - 15:15 SESSION 5

Invited Talk

- Executable Use Cases: a Supplement to Model-Driven Development?
Jens B. Jørgensen

15:15 - 15:55 SESSION 6

Software Product Lines

- Adopting Computational Independent Models for Derivation of Architectural Requirements of Software Product Lines
Alexandre Bragança, Ricardo J. Machado
- Model-driven Development of Particle System Families
Michalis Anastasopoulos, András Balogh

15:55 - 16:15 Coffee Break

16:15 - 16:55 SESSION 7

Session on Embedded Systems (Chair: Luís Gomes)

- ModES: Embedded Systems Design Methodology and Tools based on MDE
Francisco Assis M. do Nascimento, M´rcio F. S. Oliveira, Flávio Rech Wagner
- Designing a Unified Process for Embedded Systems
Elvinia Riccobene, Patrizia Scandurra, Alberto Rosti, Sara Bocchio

16:55 - 17:10 Closing Session

Programme of OpenCert

Foundations and Techniques for Open Source Software Certification

Saturday, March 31, room: CP2-110

09:00 - 10:30 SESSION 1

- Aspects of OSS Certification
B. Aichernig, TU Graz, Austria
- Towards a Quality Model for OSS
S.A. Shaikh & A. Cerone, UNU-IIST, Macao

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

- A System to Understand Programs Written in C Language by Code Annotation
M. Beron, B. Henriques, Univ. of Minho; M. Varanda, Polytechnic Inst. Braganca, Portugal; R. Uzal, Univ. of San Luis, Argentina
- Slicing Techniques and Program Calculi in OSS Certification
N. Rodrigues, L. Barbosa, J.N. Oliveira Univ. Minho, Portugal

12:30 - 14:00 Lunch

14:00 - 15:30 SESSION 3

- Linux Certification
A.K. Petrenko, ISPRAS, Russia
- OSS Operating Systems for Critical Avionics Infrastructure: A survey on quality and security certification
D. von Oheimb, Siemens, Germany

15:30 - 16:00 Coffee Break

16:00 - 18:30 SESSION 4

- Position Talk on the OSS Certification Process
P.T. Breuer & S. Pickin, Univ. Carlos III Madrid, Spain
- A Perspective on OSS Certification
J. Visser, SIG, The Netherlands
- Short Position Statements and Discussion

Programme of QAPL

Fifth Workshop on Quantitative Aspects of Programming Languages

Saturday, March 24, room: CP2-105

10:55 - 12:30 SESSION 1

Welcome

Invited Talk

- Nondeterminism in Quantitative Analysis of Probabilistic Systems
Roberto Segala (University of Verona, Italy)

Paper Presentation:

- Keeping Secrets in Resource Aware Components
Tom Chothia (CWI, The Netherlands), Jun Pang (University of Oldenburg, Germany) and Mohammad Torabi Dashti (CWI, The Netherlands)

12:30 - 14:30 Lunch

14:30 - 16:00 SESSION 2

Invited Talk

- Artificial Biochemistry
Luca Cardelli (Microsoft Research, UK)

Paper Presentation:

- Stochastic Concurrent Constraint Programming and Differential Equations
Luca Bortolussi (University of Trieste, Italy) and Alberto Policriti (University of Udine, Italy)

16:00 - 16:30 Coffee Break

16:30 - 18:00 SESSION 3

Paper Presentations:

- On Probabilistic Techniques for Data Flow Analysis
Alessandra Di Pierro, Chris Hankin and Herbert Wiklicky (Imperial College London, UK)
- Probabilistic Pi-Calculus and Event Structures
Daniele Varacca (University of Paris 7, France) and Nobuko Yoshida (Imperial College London, UK)
- Probabilistic Barbed Congruence
Yuxin Deng (Shanghai Jiao Tong University, China) and Wenjie Du (Shanghai Normal University, China)

Sunday, March 25, room: CP2-105

09:30 - 10:30 SESSION 1

Invited Talk

- Approximate Reasoning for Time and Probabilities
Radha Jagadeesan (DePaul University, USA)

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

Paper Presentations:

- Modelling Multicast QoS Routing by using Best-Tree Search in And-or Graphs and Soft Constraint Logic Programming
Stefano Bistarelli (University of Pescara, Italy), Ugo Montanari (University of Pisa, Italy), Francesca Rossi (University of Padova, Italy) and Francesco Santini (IMT Lucca, Italy)
- Exogenous Probabilistic Computation Tree Logic
Pedro Baltazar, Paulo Mateus (University of Lisbon, Portugal), Rajagopal Nagarajan and Nikolaos Papanikolaou (University of Warwick, UK)

12:30 - 14:30 Lunch

14:30 - 16:00 SESSION 3

Paper Presentations:

- Stochastic Modelling of Communication Protocols from Source Code
Michael Smith (University of Edinburgh, UK)
- PEPA Queues: Capturing customer behaviour in queueing networks
Ashok Argent-Katwala and Jeremy Bradley (Imperial College London, UK)
- A structural approach for modelling performance of systems using skeletons
Gagarine Yaikhom, Murray Cole, Stephen Gilmore and Jane Hillston (University of Edinburgh, UK)

16:00 - 16:30 Coffee Break

16:30 - 17:30 SESSION 4

Short Paper Presentations:

- Distributed Liveness and Timers for Mobile Processes
Martin Berger and Nobuko Yoshida (Imperial College London, UK)
- Stochastic Ambient Logic
Maria Grazia Vigliotti (Imperial College London, UK)

17:30 Steering Committee Meeting

Programme of SC

Workshop on Software Composition

Saturday, March 24, room: CP2-101

09:00 - 10:30 SESSION 1

Welcome

Invited Talk

- Composition by Anonymous Third Parties
Farhad Arbab (CWI and Leiden University, NL)

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

Composition Contracts

- Defining Component Protocols with Service Composition: Illustration with the Kmelia Model
Pascal André, Gilles Ardourel, and Christian Attiogbé (University Of Nantes, F)
- Composite Contract Enforcement in Hierarchical Component Systems
Philippe Collet (University of Nice, F), Jacques Malenfant (University Paris 6, F), Alain Ozanne, and Nicolas Rivierre (France Telecom R&D, F)
- Towards a Unifying Theory for Choreography Conformance and Contract Compliance
Mario Bravetti and Gianluigi Zavattaro (University of Bologna, I)

12:30 - 14:00 Lunch

14:00 - 16:00 SESSION 3

Composition Design & Analysis

- A Process-Algebraic Approach to Workflow Specification and Refinement
Peter Wong and Jeremy Gibbons (University of Oxford, UK)
- Generic Feature-Based Software Composition
Tijs Van der Storm (CWI, NL)
- Composition Management Interfaces for a predictable assembly
Xabier Aretxandietia, Goiuria Sagardui (University of Mondragon, E), and Franck Barbier (Pau University, F)}
- Error propagation analysis in composition of software services
Vittorio Cortellessa (Università dell'Aquila, I) and Pasqualina Potena (Università "G. D'Annunzio", I)

16:00 - 16:30 Coffee Break

16:30 - 18:00 SESSION 4

Dynamic Composition

- Dynamically Adaptable Applications with iPOJO Service Components
Clement Escoffier and Richard Hall (Grenoble University, F)

- Dynamic Contextual Service Ranking
Andre Bottaro (France Telecom, F) and Richard Hall (Grenoble University, F)
- A Rapid Adaptive Algorithm for Finding Replacement Service Locally during Dynamic Service Composition
Xingzhi Feng, Quanyuan Wu, Yan Jia, Bin Zhou, and Yi Ren (National University of Defense Technology, China)

Sunday, March 25, room: CP2-101

09:30 - 10:30 SESSION 1

Short Papers

- Measuring Reactability of Persistent Computing Systems
Takumi Endo, Yuichi Goto, and Jingde Cheng (Saitama University, Japan)
- Requirements for applying aspect-oriented techniques in webservice composition languages
Mathieu Braem and Niels Joncheere (Vrije Universiteit Brussel, B)
- Synthesizing Communication Middleware from Explicit Connectors in Component Based Distributed Architectures
Dietmar Schreiner and Karl Göschka (Vienna University of Technology, A)
- Streamlining Feature-Oriented Designs
Martin Kuhlemann, Sven Apel, and Thomas Leich (University of Magdeburg, D)
- Requirements for Reusable Aspect Deployment
Bruno De Fraine and Mathieu Braem (Vrije Universiteit Brussel, B)

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

Aspect-Oriented Programming

- Aspect-Oriented Programming: Selecting and Exposing Object Paths
Mohammed Al-Mansari, Stefan Hanenberg, and Rainer Unland (University of Duisburg-Essen, D)
- Debugging Aspect-Enabled Programs
Marc Eaddy, Alfred Aho (Columbia University, USA), Weiping Hu, Paddy McDonald, and Julian Burger (Microsoft Corporation, USA)
- Unification of Static and Dynamic AOP for Evolution in Embedded Software Systems
Wasif Gilani and Fabian Scheler (Erlangen University, D)

12:30 - 14:00 Lunch

14:00 - 16:00 SESSION 3

Structural Composition

- Patterns of Component Evolution
Rajesh Vasa (Swinburne University of Technology, AUS), Markus Lumpe (Iowa State University, USA), and Jean-Guy Schneider (Swinburne University of Technology, AUS)
- An Approach for Structural Pattern Composition
Imed Hammouda and Kai Koskimies (Tampere University of Technology, FI)
- Composite Connectors for Composing Software Components
Kung-Kiu Lau, Ling Ling, Vladyslav Ukis, and Perla Velasco (The University of Manchester, UK)

16:00 - 16:30 Coffee Break

16:30 - 17:00 SESSION 4

Concluding Discussion and Remarks

Programme of SLA++P

Model-driven High-level Programming of Embedded Systems

Saturday, March 31, room: CP2-105

09:00 - 10:30 SESSION 1

- Welcome and Opening
- (Invited Talk)
Dr. Steven Miller, Senior Principal Engineer in the Advanced Technology Center of Rockwell Collins, USA
- A Model Checking Approach to Protocol Conversion
R.Sinha, P.S.Roop, S.Basu

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

- Worst Case Reaction Time Analysis of Concurrent Reactive Programs
M.Boldt, C.Traulsen, R.von Hanxleden
- Executable Specifications for Real-Time Distributed Systems
A.Ray, R.Cleaveland
- (Short discussion) SYNCHRON'07 and SLAP'08

12:30 - 14:00 Lunch

14:00 - 15:30 SESSION 3

- Gotos in Esterel
O.Tardieu, S.A.Edwards
- Specifying and executing reactive scenarios with Lutin
P.Raymond, Y.Roux, E.Jahier
- Modifying Contracts with Larissa Aspects
D.Stauch

15:30 - 16:00 Coffee Break

16:00 - 18:30 SESSION 4

- Lustre as a System Modeling Language: Lussensor, a Case-Study with Sensor Networks
F.Maraninchi, L.Samper, K.Baradon, A.Vasseur Madrid, Spain
- Mutation analysis for LUSTRE programs
L.du Bousquet
- Extending Lustre with Timeout Automata
J.Gao, M.Whalen, E.Van Wyk

Programme of Termgraph

4th International Workshop on Computing with Terms and Graphs

Saturday, March 31, room: CP2-104

09:20 - 10:30 SESSION 1

Welcome

- An Algebra for Directed Bigraphs
D. Grohmann and M. Miculan
- Modeling and Verifying Graph Transformations in Proof Assistants
M. Strecker

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

- Intensional properties of polygraphs
G. Bonfante and Y. Guiraud
- Term-graph rewriting in TOM with relative positions
E. Balland and P. Brauner
- Deduction Graphs with Universal Quantification
H. Geuvers and I. Loeb

12:30 - 14:00 Lunch

14:00 - 16:00 SESSION 3

- Rewritings for Polarized Multiplicative and Exponential Proof Structures
C. Fouquere and V. Mogbil
- Hard Combinators
D. Bechet and S. Lippi
- Universal Boolean Systems
D. Bechet and S. Lippi
- Interaction Nets with Nested Pattern Matching
S. Sato and A. Hussan
- Sub-lambda-calculi, classified
F-R. Sinot

Programme of WITS

7th International Workshop on Issues in the Theory of Security

Saturday, March 24, room: CP2-102

09:00 - 10:30 SESSION 1

Welcome

- Riccardo Focardi (University of Venice)

Invited Talk

- On the use of formal models for proving cryptographic security notions
Véronique Cortier

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

Computational Security

- Computationally Sound Analysis of Protocols using Bilinear Pairings
Laurent Mazare
- On the Role of Scheduling in Simulation-Based Security
Ran Canetti, Ling Cheung, Nancy Lynch and Olivier Pereira
- Inductive Trace Properties Imply Computational Security
Arnab Roy, Anupam Datta, Ante Derek and John Mitchell

12:30 - 14:00 Lunch

15:00 - 16:00 SESSION 3

Information Flow

- On information flow and refinement-closure
Gavin Lowe
- Nondeducibility on strategies in the temporal logic of knowledge
Catalin Dima and Constantin Enea

16:00 - 16:30 Coffee Break

16:30 - 17:30 SESSION 4

Static Analysis of Authentication

- Detecting Replay Attacks by Freshness Annotations
Han Gao, Pierpaolo Degano, Chiara Bodei and Hanne Riis Nielson
- A Calculus of Challenges and Responses
Michael Backes, Agostino Cortesi, Riccardo Focardi and Matteo Maffei

Sunday, March 25, room: CP2-102

09:30 - 10:30 SESSION 1

Invited Talk

- Certified access control on mobile interactive devices
Thomas Jensen (Saitama University, Japan)

10:30 - 11:00 Coffee Break

11:00 - 12:30 SESSION 2

New Models for Security Protocols

- On the Specification of Secure Channels
Christopher Dilloway and Gavin Lowe
- Causality-based Abstraction of Multiplicity in Security Protocols
Michael Backes, Agostino Cortesi and Matteo Maffei
- Skeletons and the Shapes of Bundles
Joshua Guttman, Shaddin Doghmi and F. Javier Thayer

12:30 - 14:00 Lunch

15:00 - 16:00 SESSION 3

Protocol Verification

- Verifying an implementation of SSH
Erik Poll and Aleksy Schubert
- Partial Order Reduction for Branching Security Protocols
Wan Fokkink, Mohammad Torabi Dashti and Anton Wijs

16:00 - 16:30 Coffee Break

16:30 - 17:30 IFIP WG 1.7 Business Meeting