



FINAL PROGRAM

THE 2006 ACM SIGAPP SYMPOSIUM ON APPLIED COMPUTING



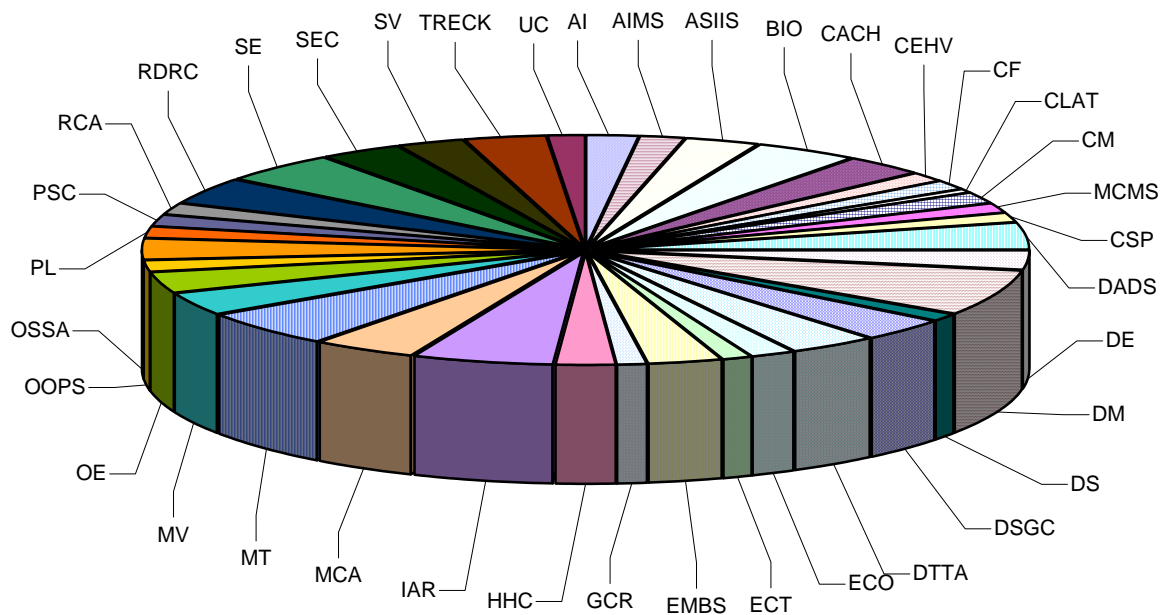
<http://www.acm.org/conferences/sac/sac2006>

Dijon, France
April 23 - 27, 2006

Organizing Committee

Hisham M. Haddad
Richard Chbeir
Sascha Ossowski
Roger L. Wainwright

Lorie M. Liebrock
Mathew J. Palakal
Kokou Yetongnon
Christophe Nicolle



HOSTED BY

Bourgogne University, Dijon, France

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SAC 2006 INTRODUCTION

SAC 2006 is a premier international conference on applied computing and technology. Attendees have the opportunity to hear from expert practitioners and researchers about the latest trends in research and development in their fields. SAC 2006 features 2 keynote speakers on Monday and Wednesday, from 8:30 to 10:00. The symposium consists of Tutorial and Technical programs. The Tutorial Program offers 6 half-day tutorials on Sunday April 23, 2006, starting at 9:00am. The Technical Program offers 38 tracks on a wide number of different research topics, which run from Monday April 24 through Thursday April 27, 2006. Regular sessions start at 8:30am and end at 5:00pm in 5 parallel sessions.

SAC 2006 Organizers

Hisham M. Haddad, *Symposium Chair*
Kennesaw State University, USA

Richard Chbeir, *Symposium Vice Chair*
Bourgogne University, France

Roger L. Wainwright, *Program Chair*
University of Tulsa, USA

Sascha Ossowski, *Program Chair*
University Rey Juan Carlos, Madrid, Spain

Kokou Yetongnon, *Tutorials Chair*
Bourgogne University, France

Mathew J. Palakal, *Poster Chair*
Indiana University Purdue University, USA

Lorie M. Liebrock, *Publication Chair (Proceedings Editor)*
New Mexico Institute of Mining and Technology, USA

Hisham M. Haddad, *Treasurer, Webmaster, Registrar*
Kennesaw State University, USA

Christophe Nicolle, *Local Arrangement Chair*
Bourgogne University, France

SAC 2006 Track Organizers

AI and Computational Logic and Image Analysis (AI)

C.C. Hung, School of Computing and Soft. Eng., USA
Agostinho Rosa, LaSEEB -ISR - IST, Portugal

Advances in Spatial and Image-based Information Systems (ASIS)

Kokou Yetongnon, Bourgogne University, France
Christophe Claramunt, Naval Academy Research Institute, France
Richard Chbeir, Bourgogne University, France

Agents, Interactions, Mobility and Systems (AIMS)

Henry Hexmoor, University of Arkansas, USA
Marcin Paprzycki, SWPS, Poland
Niranjan Suri, IHMC University of West Florida, USA

Bioinformatics (BIO)

Mathew J. Palakal, Indiana University Purdue University, USA
William Perrizo, North Dakota State University, USA

Computer Applications in Health Care (CACH)

Valentin Masero, University of Extremadura, Spain
Pierre Collet, Université du Littoral (ULCO), France

Computer Ethics and Human Values (CEHV)

Keith Miller, University of Illinois at Springfield, USA

Computer Forensics (CF)

Brajendra Panda, University of Arkansas, USA
Kameswara Namuduri, Wichita State University, USA

Computer-aided Law and Advanced Technologies (CLAT)

Giovanni Sartor, University of Bologna, Italy
Alessandra Vilecco Bettelli, University of Bologna, Italy

Computer Security (SEC)

Giampaolo Bella, Università di Catania, Italy
Peter Ryan, University of Newcastle upon Tyne, UK

Constraint Solving and Programming (CSP)

Stefano Bistarelli, Univ. degli studi "G. D'Annunzio" di Chieti-Pescara, Italy

Eric Monfroy, University of Nantes, France
Barry O'Sullivan, University College Cork, Ireland

Coordination Models, Languages and Applications (CM)

Alessandro Ricci, Università di Bologna, Italy
Ronaldo Menezes, Florida Institute of Technology, USA

Database Theory, Technology, and Applications (DTTA)

Ramzi A. Haraty, Lebanese American University, Lebanon
Apostolos N. Papadopoulos, Aristotle University, Greece
Junping Sun, Nova Southeastern University, USA

Data Mining (DM)

Hasan M. Jamil, Wayne State University, USA
Rosa Meo, Università di Torino, Italy
Gill Dobbie, University of Auckland, New Zealand

Data Streams (DS)

Jesus S. Aguilar-Ruiz, Pablo de Olavide University, Spain
Francisco J. Ferrer-Troyano, University of Seville, Spain

Dependable and Adaptive Distributed Systems (DADS)

Karl M. Göschka, Vienna University of Technology, Austria
Svein O. Hallsteinsen, SINTEF ICT, Norway
Rui Oliveira, Universidade do Minho, Portugal
Alexander Romanovsky, University of Newcastle upon Tyne, UK

Distributed Systems and Grid Computing (DSGC)

Robert van Engelen, Florida State University, USA
Madhu Govindaraju, Binghamton University, USA
Nectarios Koziris, National Technical University of Athens, Greece
Kleanthis Psarris, University of Texas at San Antonio, USA

Document Engineering (DE)

Rafael Dueire Lins, Universidade Federal de Pernambuco, Brazil

Electronic Commerce Technologies (ECT)

Sviatoslav Braynov, University of Illinois at Springfield, USA
Manuel Núñez, Universidad Complutense de Madrid, Spain
Fernando Rubio, Universidad Complutense de Madrid, Spain

Embedded Systems: Applications, Solutions and Techniques (EMBS)

Alessio Bechini, University of Pisa, Italy
Cosimo Antonio Prete, University of Pisa, Italy
Francois Bodin, Campus de Beaulieu, France

Evolutionary Computing and Optimization (ECO)

Bryant A. Julstrom, St. Cloud State University, USA

Geometric Computing and Reasoning (GCR)

Xiao-Shan Gao, Chinese Academy of Sciences, China
Dominique Michelucci, Université de Bourgogne, France
Pascal Schreck, Université Louis Pasteur, France

Handheld Computing (HHC)

Qusay H. Mahmoud, University of Guelph, Canada
Zakaria Maamar, Zayed University, UAE

Information Access and Retrieval (IAR)

Fabio Crestani, University of Strathclyde, UK
Gabriella Pasi, ITC-CNR, Italy

Mobile Computing and Applications (MCA)

Hong Va Leong, Hong Kong Polytechnic University, China
Alvin Chan, Hong Kong Polytechnic University, China

Model Transformation (MT)

Jean Bézivin, University of Nantes, France
Alfonso Pierantonio, Università degli Studi dell'Aquila, Italy
Antonio Vallecillo, Universidad de Malaga, Spain

More Accurate Computation: Methods and Software (MCMS)

Philippe Langlois, University of Perpignan, France
Siegfried Rump, Technical University Hamburg-Harburg, Germany

Multimedia and Visualization (MV)

Chaman L. Sabharwal, University of Missouri-Rolla, USA
Mingjun Zhang, Agilent Technologies, USA

Object-Oriented Programming Languages and Systems (OOPS)

Davide Ancona, DISI - Università di Genova, Italy
Mirko Viroli, Università di Bologna, Italy

Operating Systems and Adaptive Applications (OSAA)

Jiman Hong, Kwangwoon University, Korea
Tei-Wei Kuo, National Taiwan University, Taiwan

Organizational Engineering (OE)

José Tribolet, Technical University of Lisbon, Portugal
Robert Winter, University of St. Gallen, Switzerland
Artur Caetano, Technical University of Lisbon, Portugal

Programming for Separation of Concerns (PSC)

Antonella Di Stefano, Catania University, Italy
Giuseppe Pappalardo, Catania University, Italy
Corrado Santoro, Catania University, Italy
Emiliano Tramontana, Catania University, Italy
Ian Welch, Victoria University, New Zealand

Programming Languages (PL)

Chang-Hyun Jo, California State University at Fullerton, USA
Marjan Mernik, University of Maribor, Slovenia
Barrett Bryant, University of Alabama at Birmingham, USA

Reliable Computations and their Applications (RCA)

Martine Ceberio, University of Texas at El Paso, USA
Vladik Kreinovich, University of Texas at El Paso, USA
Michael Rueher, Universite de Nice ESSI, France

Semantic-Based Resource Discovery, Retrieval and Composition (RDR)

Eugenio Di Sciascio, SinsInflab Politecnico di Bari, Italy
Francesco M. Donini, Universita' di Viterbo, Italy
Tommaso Di Noia, SinsInflab Politecnico di Bari, Italy

Software Engineering: Applications, Practices and Tools (SE)

Stefan Gruner, Swansea Institute, UK
Sung Shin, South Dakota State University, USA

Software Verification (SV)

Zijiang Yang, Western Michigan University, USA
Lunjin Lu, Oakland University, USA

Trust, Recommendations, Evidence and other Collaborative Know-how (TRECK)

Jean-Marc Seigneur, University of Geneva, Switzerland
Christian Damsgaard Jensen, Technical University of Denmark, Denmark

Ubiquitous Computing (UC)

Achilles Kameas, Hellenic Open University, Greece
George Roussos, University of London, UK

SAC 2006 Local Support

Local support for SAC 2006 is provided by Bourgogne University, City of Dijon, LE2I-CNRS, CROUS de Dijon at Bourgogne University, and IUT de Dijon. The SAC organizing committee acknowledges and thanks the local supporters for their generous contributions to SAC 2006. Their support has been essential to the success of Symposium, and is greatly appreciated.

ACM SIGAPP

The ACM Special Interest Group on Applied Computing is ACM's primary applications-oriented SIG. Its mission is to further the interests of the computing professionals engaged in the development of new computing applications and applications areas and the transfer of computing technology to new problem domains. SIGAPP offers practitioners and researchers the opportunity to share mutual interests in innovative application fields, technology transfer, experimental computing, strategic research, and the management of computing. SIGAPP also promotes widespread cooperation among business, government, and academic computing activities. Its annual Symposium on Applied Computing (SAC) provides an international forum for presentation of the results of strategic research and experimentation for this inter-disciplinary environment. SIGAPP membership fees are: \$30.00 for ACM Non-members, \$15.00 for ACM Members, and \$8.00 for Student Members. For information contact Barrett Bryant at bryant@cis.uab.edu. Also, check out the SIGAPP website at <http://www.acm.org/sigapp/>

MESSAGE FROM THE CONFERENCE CHAIR

Hisham M. Haddad

Kennesaw State University, USA

On behalf of the Organization Committee, it is my pleasure to welcome you to the 21st Annual ACM Symposium on Applied Computing (SAC 2006). This year, the conference is hosted by Bourgogne University, in the city of Dijon, France. Thank you for your participation in this international event dedicated to computer scientists, engineers, and practitioners seeking innovative ideas in various areas of computational applications.

The sponsoring SIG of this Symposium, the ACM Special Interest Group on Applied Computing, is dedicated to further the interests of computing professionals engaged in the design and

development of new computing applications, interdisciplinary applications areas, and applied research. The conference provides a forum for discussion and exchange of new ideas addressing computational algorithms and complex applications. This goal is reflected in its wide spectrum of application areas and tutorials designed to provide variety of discussion topics during this event.

The Symposium depends on the organization of technical tracks. As in past successful meetings, talented and dedicated Track Chairs and Co-Chairs who are committed to the success of the conference have organized SAC 2006 tracks. Each track maintains a program committee and group of highly qualified reviewers. Many thanks to Track Chairs, Co-Chairs, and participating reviewers for their commitment to making SAC 2006 another high quality conference. We thank our invited keynote speakers for sharing their knowledge with SAC attendees. Most of all, special thanks to the authors and presenters for sharing their experience with the rest of us and to all attendees for joining us this year in Dijon.

The local organizing committee has always been a central contributor to the success of the symposium. This year, we thank our local team from Bourgogne University. In particular, we thank Richard Chbeir for his role as the conference Vice-Chair, Kokou Yetongnon for organizing the Tutorials Program, and Christophe Nicolle for chairing the local organization effort. We also thank the City of Dijon and Bourgogne University for hosting the conference and for their generous contributions and support. Other committee members I would like to thank are Lorie Liebrock for her tremendous effort putting together the conference proceedings, Mathew Palakal for coordinating another successful Posters Program, and Roger Wainwright and Sascha Ossowski for bringing together the Technical Program. All aspects of the Symposium have been guided by the dedication, enthusiasm, and foresight of these professionals. Many thanks to all of them for the countless hours of volunteer work they spent to bring us together another successful SAC meeting.

Again, we welcome you to SAC 2006 and the beautiful city of Dijon. We hope you enjoy your stay in Dijon and leave this event enriched with new ideas and friends. Next year, we invite you to participate in SAC 2007 to be hosted by Seoul National University and Suwon University in Seoul, Korea.

MESSAGE FROM THE PROGRAM CHAIRS

Roger L. Wainwright

University of Tulsa, USA

Sascha Ossowski

University Rey Juan Carlos, Spain

Welcome to the 21st Symposium on Applied Computing (SAC 2006). Over the past 20 years, SAC has been an international forum for researchers and practitioners to present their findings and research results in the areas of computer applications and technology. The SAC 2006 Technical Program offers a wide range of tracks covering major areas of computer applications. Highly qualified referees with strong expertise and special interest in their respective research areas carefully reviewed the submitted papers. As part of the Technical Program, this year the Tutorial Program offers several half-day tutorials that were carefully selected from numerous proposals. Many thanks to Kokou Yetongnon from the University of Bourgogne for chairing the Tutorial Program. Also, this is the third year for SAC to incorporate poster papers into the Technical Program. Many thanks to Mathew Palakal from Indiana University Purdue University for chairing the poster sessions. SAC 2006 would not be possible without contributions from

members of the scientific community. As anyone can imagine, many people have dedicated tremendous time and effort over the period of 10 months to bring you an excellent program. The success of SAC 2006 relies on the effort and hard work of many volunteers. On behalf of the SAC 2006 Organizing Committee, we would like to take this opportunity to thank all of those who made this year's technical program a reality, including speakers, referees, track chairs, session chairs, presenters, and attendees. We also thank the local arrangement committee lead by Christophe Nicolle from the University of Bourgogne. We also want to thank Hisham Haddad from Kennesaw State University for his excellent job again as the SAC Treasurer, Webmaster, and Registrar.

SAC's open call for Track Proposals resulted in the submission of 41 track proposals. These proposals were carefully evaluated by the conference Executive Committee. Some proposals were rejected on the grounds of either not being appropriate for the areas that SAC covers traditionally or being of rather narrow and specialized nature. Some others were merged to form a single track, on the grounds of having substantial overlap with each other. Eventually, 38 tracks were established, which then went on to produce their own call for papers. In response to these calls, 927 papers were submitted, from which 300 papers were strongly recommended by the referees for acceptance and inclusion in the Conference Proceedings. This gives SAC 2006 an acceptance rate of 32% across all tracks. Furthermore, it makes SAC 2006 the most successful conference in the history of SAC so far. SAC is also one of the most popular and competitive conferences in the international field of applied computing.

We hope you will enjoy the meeting and have the opportunity to exchange your ideas and make new friends. We also hope you will enjoy your stay in Dijon, France and take pleasure from the many entertainments and activities that the city and France has to offer. We look forward to your active participation in SAC 2006, and encourage you and your colleagues to submit your research findings to next year's technical program. Thank you for being part of SAC 2006, and we hope to see you in Seoul, Korea for SAC 2007.

OTHER ACTIVITIES

SAC 2006 Review Meeting: Sunday April 23, 2006, from 17:00 to 18:00 in Amphi Claude Bernard. Open for SAC Organizing Committee and Track Chairs and Co-Chairs.

SAC 2007 Organization Meeting: Monday April 24, 2006, from 12:00 to 14:00 in the University Restaurant Montmuzard (Lunch Meeting). Open for SAC Organizing Committee.

Posters Session: Monday April 24, 2006, from 14:00 to 17:00 in the hall of sciences Mirande. Open to everyone!

SAC 2006 Reception: Monday April 24, 2006 at 19:00 (Depart at 18.15). Hosted by the Municipality of Dijon (salle de Flore). Open for all registered attendees.

SIGAPP Annual Business Meeting: Tuesday April 25, 2006, from 18:00 to 19:00 in Amphi Claude Bernard. Open to everyone!

SAC 2006 Banquet: Wednesday April 26, 2006. At Marsannay Castle. Depart at 18.30. Open for Banquet Ticket holders. See your tickets for full details.

SAC 2006 Track Chairs Luncheon: Thursday April 27, 2006, from 12:00 to 13:30 in the University Restaurant Montmuzard. Open for SAC Organizing Committee and Track Chairs and Co-Chairs.

SAC 2006 Wrap-up Meeting: Thursday April 27, 2006, from 18:00 to 19:00 in Amphi Claude Bernard. Open for SAC Organizing Committee.

SAC 2007

SAC 2007 will be held in Seoul, Korea, March 11 – 15, 2007. It is hosted by the Seoul National University and Suwon University in Seoul. Please check the registration desk for handouts.

MONDAY KEYNOTE ADDRESS

Intelligent agent technology: Human-machine natural dialogue and inter-agent communication

Dr. David Sadek
France Télécom R&D

MONDAY APRIL 24, 2006, 8:30 – 10:00 AM

AMPHI CLAUDE BERNARD

ABSTRACT

The intelligent agent paradigm has generated such a tremendous interest in today's world of R&D, and so vast is its range of potential applications, that it is already seen as the source of a new technological revolution that will encompass application domains from access to information, to games, including resource monitoring, personal and public digital assistants, natural language interfaces, intelligent intermediation, e-business, training and education, and so on. This interest is particularly emphasized by the inter-connection of networks and the inter-operability of software and services.

The agent approach aims to introduce the required intelligence into information processing. The idea is to produce a changeover from software that provides functions to software that offers services. The latter will be more user-friendly, simpler, richer and more easily adaptable, precisely because more intelligent and mastering the semantics of the information and the functions being handled. The semantics technologies enable to implement services in which the system, namely the software agent, is capable of carrying on a natural dialogue with the user. Associated with a permanent multimedia connectivity, such technologies will, in the coming years, offer to the user a coherent view of a seamless inter-service and inter-media continuum. As soon as the market begins to witness generic agent technologies along with standards for ontologies and knowledge representation, this will mark the real technological leap forward introducing a deep change of telecommunication use and market. The present scientific, technical and industrial landscape holds every indication that these fundamental changes will take place progressively over the very next years.

This talk particularly focuses on why and how the concept of cognitive agent provides a relevant approach to model and to implement intelligent human-machine natural dialogue systems. The rational dialogue agent model comes within this approach, which also allows for handling interactions between software agents according to the same principles. This model is at the basis of the Artemis technology and also at the origin of the FIPA ACL standard communication language. Several operational Artemis based applications have been developed and commercial large scale services have begun to be deployed. Beyond its promising potential, the presented approach opens new research perspectives in the domains of the design of artificial intelligent behaviors and the organization of agent societies. Several demonstrations illustrating the different issues tackled in this talk will be given.

WEDNESDAY KEYNOTE ADDRESS

Advanced Program Development using Abstract Interpretation

Dr. Manuel Hermenegildo
Technical University of Madrid and University of
New Mexico

WEDNESDAY APRIL 26, 2006, 8:30 – 10:00 AM

AMPHI CLAUDE BERNARD

ABSTRACT

One of the fundamental challenges in program development, from large applications to embedded code, is to be able to develop, in the shortest time possible, programs that are efficient and correct. We argue that in order to achieve this goal, in addition to factors such as better programming languages, substantially improved functionality is needed from programming environments. We present a novel program development framework which uses "Abstract Interpretation" as a fundamental component. Abstract interpretation is a technique which has allowed the development of very sophisticated program analyzers and transformers, which are at the same time provably correct and highly practical. The framework that we present uses this type of program analysis to obtain information about the program. This information is then used to validate programs with respect to partial specifications written using assertions, to detect and locate bugs, to simplify run-time tests, to perform high-level program transformations (such as specialization, parallelization, or resource usage control), and to enrich mobile code with safety certificates. The system can reason with much richer information than, for example, traditional type declarations. This includes pointer aliasing, shapes, exceptions, determinacy, abounds on resource consumption (such as computational cost or sizes of data in the program), etc. CiaoPP, the preprocessor of the Ciao multi-paradigm programming system is an implementation of this framework and will be used to illustrate these ideas.

SAC 2006 SCHEDULE

SUNDAY APRIL 23, 2006

14:00 – 18:00 **SALLE DU CONSEIL**
REGISTRATION

17:00 – 18:00 **AMPHI CLAUDE BERNARD**
SAC 2006 REVIEW MEETING

MONDAY APRIL 24, 2006

08:00 – 18:00 **SALLE DU CONSEIL**
REGISTRATION

08:00 – 08:30 **AMPHI CLAUDE BERNARD**
OPENING REMARKS

08:30 – 10:00 **AMPHI CLAUDE BERNARD**
KEYNOTE ADDRESS

Intelligent agent technology: Human-machine natural dialogue and inter-agent communication

Dr. David Sadek
France Télécom R&D
(See Abstract Above)

10:00 – 10:30 **HALL OF SCIENCES MIRANDE**
COFFEE BREAK

10:30 – 12:00 **AMPHI CLAUDE BERNARD**

(ASIS-1) Advances in Spatial and Image- based Information Systems

Jan Vahrenhold, Universität Münster, Germany

Dynamic interactive spatial similarity retrieval in iconic image databases using enhanced digraph

Xiao Ming Zhou, Sybase Asia Development Center, Singapore
Chuan Heng Ang, National University of Singapore, Singapore
Tok Wang Ling, National University of Singapore, Singapore

TerraCost: A Versatile and Scalable Approach to Computing Least-Cost-Path Surfaces for Massive Grid-Based Terrains

Thomas Hazel, Bowdoin College, USA
Laura Toma, Bowdoin College, USA
Jan Vahrenhold, University of Münster, Germany
Rajiv Wickremesinghe, Duke University, USA

Using Dijkstra's Algorithm to Incrementally Find the K-Nearest Neighbors in Spatial Network Databases

Victor Teixeira de Alameida, University of Hagen, Germany
Ralf Hartmut Gutting, University of Hagen, Germany

An Open Source and Web Based Framework for Geographic and Multidimensional Processing

Joel da Silva, Federal University of Pernambuco, Brazil
Valeria C. Times, Federal University of Pernambuco, Brazil
Ana Carolina Salgado, Federal University of Pernambuco, Brazil
Vivianne da Nóbrega Medeiros, Federal University of
Pernambuco, Brazil
Robson do Nascimento Fidalgo, Federal University of
Pernambuco, Brazil

10:30 – 12:00 AMPHI ALBERT RECOURA**(UC-1) Ubiquitous Computing**

Achilles Kameas, Hellenic Open University, Greece
George Roussos, University of London, UK

Ubiquitous Presence Systems

Matthias Kranz, University of Munich
Paul Holleis, University of Munich
Albrecht Schmidt, University of Munich

BBQ: Group-Based Querying in a Ubiquitous Environment

Hong Va Leong, Hong Kong Polytechnic University
Gary Hoi Kit Lam, Hong Kong Polytechnic University
Stephen Chi Fai Chan, Hong Kong Polytechnic University

Domotic House Gateway

Paolo Pellegrino, Politecnico di Torino
Dario Bonino, Politecnico di Torino
Fulvio Corno, Politecnico di Torino

Hiding Complexity and Heterogeneity of the Physical World in Smart Living Environments

Maria Tortorella, University of Sannio
Gerardo Canfora, University of Sannio
Thierry Bodhuin, University of Sannio
Rosa Preziosi, University of Sannio

10:30 – 12:00 AMPHI MAURICE GERVEY**(MCMS-1) More Accurate Computation: Methods and Software**

Philippe Langlois, University of Perpignan, France
Stegfried Rump, Technical University Hamburg-Harburg, Germany

Quad and Correctly Rounded Double Precision Math Functions: Portable and Optimized for Intel Architectures

Alexey Ershov, Intel Corporation
Sergey Maidanov, Intel Corporation
Andrey Naraikin, Intel Corporation

Assisted Verification of Elementary Functions using Gappa

Florent de Dinechin, École Normale Supérieure de Lyon
Christoph Lauter, École Normale Supérieure de Lyon
Guillaume Melquiond, École Normale Supérieure de Lyon

Provably Faithful Evaluation of Polynomials

Sylvie Boldo, INRIA Futurs
César Muñoz, National Institute of Aerospace

Improving the Compensated Horner Scheme with a Fused Multiply and Add

Nicolas Louvet, DALI-LP2A Laboratory
Stef Graillat, DALI-LP2A Laboratory
Philippe Langlois, University of Perpignan

10:30 – 12:00 AMPHI PAUL PARIS**(IAR-1) Information Access and Retrieval**

Fabio Crestani, University of Strathclyde, UK
Gabriella Pasi, ITC-CNR, Italy

Tree Inclusion Algorithm, Signatures and Evaluation of Path-Oriented Queries

Yangjun Chen, University of Winnipeg

Distributed Collaborative Filtering for Peer-to-Peer File Sharing Systems

Jun Wang, Delft University of Technology
Johan Pouwelse, Delft University of Technology
Reginald Lagendijk, Delft University of Technology
Marcel Reinders, Delft University of Technology

Light Stemming Approaches for the French, Portuguese, German and Hungarian Languages

Jacques Savoy, University of Neuchatel

Using the Structure of Documents to Improve the Discovery of Unexpected Information

François Jacquenet, University of Saint Etienne
Christine Langeron, University of Saint-Etienne

10:30 – 12:00 AMPHI NICEPHORE NIEPCE**(SE-1) Software Engineering: Applications, Practices and Tools**

Stefan Gruner, Swansea Institute, UK
Sung Shin, South Dakota State University, USA

Extracting Refactoring Trends from Open-source Software and a Possible Solution to the 'Related Refactoring' Conundrum

Steve Counsell, Brunel University
Deepak Advani, Birkbeck, London
Youssef Hassoun, Birkbeck

Does Object Coupling Really Affects the Understanding and Modifying of OCL Expressions?

Luis Reynoso, Universidad Nacional del Comahue
Mario Piattini, Universidad of Castilla-La Mancha
Marcela Genero, Universidad de Castilla La Mancha
Esperanza Manso, University of Campus Miguel Delibes

Applying Statistical Methodology to Optimize and Simplify Software Metric Models with Missing Data

Eric W. Wong, University of Texas at Dallas
Jin Zhao, University of Texas at Dallas
Victor K.Y. Chan, Macao Polytechnic Institute

A Posteriori Defensive Programming: an Annotation Toolkit for DoS-resistant Component-Based Architectures

Valerio Schiavoni, Università Degli Studi Roma3
Vivien Quéma, INRIA

12:00 – 14:00 RESTAURANT MONTMUZARD**LUNCH BREAK**

12:00 – 14:00 RESTAURANT MONTMUZARD**SAC 2007 ORGANIZATION MEETING (LUNCH MEETING)**

14:00 – 15:30 AMPHI CLAUDE BERNARD**(ASIS-2) Advances in Spatial and Image-based Information Systems**

Michael Gr. Vassilakopoulos, Technological Educational Institute of Thessaloniki, Greece

Efficient Processing of Past-Future Spatiotemporal Queries

Katerina Raptopoulou, Aristotle University of Thessaloniki, Greece

Michael Vassilakopoulos, Technological Educational Institute of Thessaloniki, Greece

Yannis Manolopoulos, Aristotle University of Thessaloniki, Greece

Schemes for SR-Tree Packing

Jayendra Venkateswaran, University of Florida, USA
S.R. Subramanya, LG Electronics Mobile Research, USA

Continuous Spatial Queries via Wireless Data Broadcast

KwangJin Park, Korea University, Korea
MoonBae Song, Korea University, Korea
Chong-Sun Hwang, Korea University, Korea

Geographical Information Access for Non-Structured Data

Julien Lesbegueries, Université de Pau et des Pays de l'Adour, France

Mauro Giau, Université de Pau et des Pays de l'Adour, France
Pierre Loustau, Université de Pau et des Pays de l'Adour, France

14:00 – 15:30 AMPHI ALBERT RECOURA

(OE-1) Organizational Engineering

José Tribolet, Technical University of Lisbon, Portugal
Robert Winter, University of St. Gallen, Switzerland
Artur Caetano, Technical University of Lisbon, Portugal

A Contingency View of Organizational Infrastructure Requirements Engineering

Karl Cox, National ICT Australia
Steven J. Bleistein, National ICT Australia
Peter Reynolds, Australian Graduate School of Management
Alan Thorogood, Australian Graduate School of Management

Generating Correct EPCs from Configured CEPCs

Jan Mendling, Vienna University of Economics
Jan Recker, Queensland University of Technology
Michael Rosemann, Queensland University of Technology
Wil van der Aalst, Eindhoven University of Technology

Supplier Network Management: Evaluating and Rating of Strategic Supply Networks

Nikolaus Muessigmann, University of Augsburg
Antonia Albani, Delft University of Technology

Conceptual Process Configurations in Enterprise Knowledge Management Systems

Peter Bollen, Maastricht University

14:00 – 15:30 AMPHI MAURICE GERVEY

(OSAA-1) Operating Systems and Adaptive Applications

Jiman Hong, Kwangwoon University, Korea
Tei-Wei Kuo, National Taiwan University, Tawian

A Precise Schedulability Test Algorithm for Scheduling Periodic Tasks in Real-Time Systems

Wan-Chen Lu, National Tsing Hua University
Jen-Wei Hsieh, National Taiwan University
Wei-Kuan Shih, National Tsing Hua University

Towards Reliable OSGi Framework and Applications

Heejune Ahn, Seoul National University of Technology
Hyukjun Oh, Kwangwoon University
Chang Oan Sung, Indiana University

Event-Driven Scheduling for Dynamic Workload Scaling in Uniprocessor Embedded Systems

Li-Pin Chang, National Chio-Tung University

Operating System Multilevel Load Balancing

Avelino Zorzo, PUCRS
M. Corrêa, PUCRS
Roque Scheer, HP Brazil R&D

14:00 – 15:30 AMPHI PAUL PARIS

(IAR-2) Information Access and Retrieval

Fabio Crestani, University of Strathclyde, UK
Gabriella Pasi, ITC-CNR, Italy

FITE-TRT: A High Quality Translation Technique for OOV Words

Ari Pirkola, University of Tampere
Jarmo Toivonen, Tampere University of Technology
Heikki Keskustalo, University of Tampere
Kalervo Järvelin, University of Tampere

Content-based Music Filtering System with Editable User Profile

Yoshinori Hijikata, Osaka University
Kazuhiro Iwahama, Osaka University
Kazuki Takegawa, Osaka University
Shogo Nishida, Osaka University

A Scalable Algorithm for High-Quality Clustering of Web Snippets

Marco Pellegrini, IIT-CNR
Fabrizio Sebastiani, University of Padova
Filippo Geraci, CNR
Paolo Pisati, CNR

Graph-based Automatic Suggestion of Relationships among Images of Illuminated Manuscripts

Nicola Ferro, University of Padua
Maristella Agosti, University of Padua
Nicola Orio, University of Padua

14:00 – 15:30 AMPHI NICEPHORE NIEPCE

(SE-2) Software Engineering: Applications, Practices and Tools

Stefan Gruner, Swansea Institute, UK
Sung Shin, South Dakota State University, USA

Effects of Changing Requirements: A Tracking Mechanism for the Analysis Workflow

Subhajit Datta, Florida State University
Robert van Engelen, Florida State University

SEC: A Search Engine for Component Based Software Development

Sofien Khemakhem, ISET of Sfax
Khalil Drira, LAAS-CNRS
Mohomed Jmaiel, University of Sfax

Adapting Software Components by Structure Fragmentation

Gautier Bastide, Ecole de Mines de Douai
Abdelhak Seriai, Ecole de Mines de Douai
Mourad Oussalah, LINA, universit  de Nantes

Supporting Transparent Model Update in Distributed CASE Tool Integration

Prawee Sriplakich, Laboratoire d'Informatique de Paris
Xavier Blanc, Laboratoire d'Informatique de Paris
Marie-Pierre Gervais, Laboratoire d'Informatique de Paris

15:30 – 16:00 HALL OF SCIENCES MIRANDE

COFFEE BREAK

16:00 – 17:55 AMPHI CLAUDE BERNARD

(MV-1) Multimedia and Visualization

Marios C. Angelides, Brunel University, UK

Visual Exploration of Genetic Likelihood Space

Juw Won Park, The University of Iowa, USA
James F. Cremer, The University of Iowa, USA
Alberto M. Segre, The University of Iowa, USA

A Robust Watermarking System based on SVD Compression

Maria Calagna, Universita La Sapienza, Italy
Huiping Guo, California State University, USA
Luigi V. Mancini, Universita La Sapienza, Italy
Sushil Jajodia, Geroge Mason University, USA

MPEG-7 in Action: End User Experiences with COSMOS-7 Front End Systems

Harry Agius, Brunel University, UK
Marios C. Angelides, Brunel University, UK

Boundary Surface Extraction and Rendering for Volume Datasets

Shiaofen Fang, Indiana University, USA
Pooja Gupta, Indiana University, USA

An Evaluation System for News Video Streams and Blogs

Diasuke Kitayama, University of Hyogo, Japan
Kazutoshi Sumiya, University of Hyogo, Japan

16:00 – 17:55 AMPHI ALBERT RECOURA

(OE-2) Organizational Engineering

Jos  Tribolet, Technical University of Lisbon, Portugal
Robert Winter, University of St. Gallen, Switzerland
Artur Caetano, Technical University of Lisbon, Portugal

Towards a Reference Model Management System for Business Engineering

Oliver Thomas, German Research Center for Artificial Intelligence (DFKI)
Masahiro Horiuchi, Aoyama Gakuin University
Masao Tanaka, Aoyama Gakuin University

An Evaluation of Conceptual Business Process Modelling Languages

Beate List, Vienna University of Technology
Birgit Korherr, Vienna University of Technology

The User as Social Actor: a Focus on Systems Development Methodology Enactment

Bruce H. Rowlands, Griffith University

Evaluation of Current Architecture Frameworks

Susanne Leist, Univeristy of Regensburg
Gregor Zellner, Univeristy of Regensburg

Prioritization of Enterprise Resource Planning (ERP) Systems Success Measures: Viewpoints of Two Organisational Stakeholder Groups

Princely Ifinedo, University of Jyvaskyla
Nazmun Nahar, University of Jyvaskyla

16:00 – 17:55 AMPHI MAURICE GEVREY

(OSAA-2) Operating Systems and Adaptive Applications

Jiman Hong, Kwangwoon University, Korea
Tei-Wei Kuo, National Taiwan University, Tawian

Adaptive Page-level Incremental Checkpointing based on Expected Recovery Time

Sangho Yi, Seoul National University
Jiman Hong, Kwangwoon University
Junyoung Heo, Seoul National University
Yookun Cho, Seoul National Univ.

Design and Implementation of a Kernel Resource Protector for Robustness of Linux Module Programming

Jongmoo Choi, Dankuk University
Seungjae Baek, Dankuk University
Sung Y. Shin, South Dakota State University

Light-weight Service-oriented Grid Application Toolkit

Sungju Kwon, Soongsil University
Jaeyoung Choi, Soongsil University
Kumwon Cho, Korea Institute of Science and Technology Information

Contentions-Conscious Dynamic but Deterministic Scheduling of Computational and Communication Tasks

Farooq Muhammad, University of Nice Sophia-Anitipolis
Fabrice Muller, University of Nice Sophia-Anitipolis
Michel Auquin, University of Nice Sophia-Anitipolis

16:00 – 17:55 AMPHI PAUL PARIS

(AIMS-1) Agents, Interactions, Mobility, and Systems

Marcin Paprzycki, SWPS, Poland

Strong Agent Mobility for Aglets based on the IBM JikesRVM

Giacomo Cabri, University of Modena and Reggio Emilia
Luca Ferrari, University of Modena and Reggio Emilia
Letizia Leonardi, University of Modena and Reggio Emilia
Raffaele Quitadamo, University of Modena and Reggio Emilia

Implementing Rule-based Mechanisms for Agent-based Price Negotiations

Costin B dic , University of Craiova
Adriana B di , University of Craiova
Maria Ganzha, Elblag University of Humanities and Economics
Alin Iordache, University of Craiova
Marcin Paprzycki, SWPS

**Management of Unspecified Semi-Structured Data
in Multi-Agent Environment**

Shlomo Berkovsky, University of Haifa
Yaniv Eytani, University of Haifa
Yosi Ben-Asher, University of Haifa

**A Multi-Agent Algorithm for Vehicle Routing
Problem with Time Windows**

Hon Wai Leong, National University of Singapore
Ming Liu, National University of Singapore

**A Chat Interface for Human-Agent Interaction in
MAST**

Marco Carvalho, Institute for Human & Machine Cognition
Niranjan Suri, IHMC
James Horsley, Institute for Human & Machine Cognition
Matteo Rebeschini, Institute for Human & Machine Cognition

**A Distributed Stand-in Agent based Algorithm for
Opportunistic Resource Allocation**

Michal Pěchouček, Gerstner Laboratory, Czech Tech Univ
Marco Carvalho, Institute for Human & Machine Cognition
Petr Benda, Gerstner Laboratory, Czech Tech Univ
Pavel Jisl, Gerstner Laboratory, Czech Tech Univ
Niranjan Suri, Institute for Human & Machine Cognition

16:00 – 17:55 AMPHI NICEPHORE NIEPCE

**(SE-3) Software Engineering: Applications,
Practices and Tools**

Stefan Gruner, Swansea Institute, UK
Sung Shin, South Dakota State University, USA

**Supporting Change Request Assignment in Open
Source Development**

Gerardo Canfora, University of Sannio
Luigi Cerulo, University of Sannio

**Modeling and Analyzing Applications with
Domain Specific Languages by Reflective
Rewriting: a Case Study**

Bow-Yaw Wang, Academia Sinica

**Automated Generation of Monitors for Pattern
Contracts**

Benjamin Tyler, Ohio State University
Jason O. Hallstrom, Clemson University
Neelam Soundarajan, Ohio State University

**A UML 2-compatible language and tool for formal
modeling system architectures**

Pietro Colombo, Università degli Studi dell'Insubria
Matteo Pradella, CNR Istituto di Elettronica e di Ingegneria
dell'Informazione e delle Telecomunicazioni
Matteo Rossi, Politecnico di Milano
Giordano Sassaroli, CEFRIEL

**A New Method of Generating Synchronizable Test
Sequences that Detect Output-shifting Faults
Based on Multiple UIO Sequences**

Kai Chen, University of Science and Technology of China
Fan Jiang, University of Science and Technology of China
Chuan-dong Huang, University of Science and Technology of
China

14:00 – 17:00

HALL OF SCIENCES MIRANDE

POSTERS SESSION

Mathew Palakal, Indiana University Purdue University, USA

**(AI-Poster) AI and Computational Logic and
Image Analysis**

**A Quantitative Analysis of Implicational Paradoxes
in Classical Mathematical Logic**

Yuichi Goto, Saitama University
Jingde Cheng, Saitama University

**Possibilistic Clustering for Neural Network based
Breast Cancer Detection in Thermograph**

Siu-Yeung Cho, Nanyang Technical University
Do Anh Duc, Nanyang Technical University
Hiok Chai Quek, Nanyang Technical University

**Cooperative Active Contour Model and Its
Application to Remote Sensing**

Noriko Matsumoto, Saitama University
Norihiko Yoshida, Saitama University
Shuji Narazaki, Nagasaki University

**(AIMS-Poster) Agents, Interactions, Mobility,
and Systems**

**A Space Aware Agent-based Modelling Process
for the Study of Hierarchical Complex Systems**

Christophe Lecerf, Ecole des Mines d'ALES
Thi Minh Luan Nguyen, Université Paris 8 et EPHE
Ivan Lavallée, Université Paris 8 et EPHE

**From Modeling to Enactment of Distributed
Workflows: An Agent-based Approach**

Giancarlo Fortino, University of Calabria
Wilma Russo, University of Calabria
Alfredo Garro, University of Calabria

(BIO-Poster) Bioinformatics

A Bayesian Approach for Protein Classification

Luiz Merschmann, Universidade Federal Fluminense
Alexandre Plastino, Universidade Federal Fluminense

**A Novel Data Mining Algorithm for Reconstructing
Gene Regulatory Networks from Microarray Data**

Patrick C.H. Ma, Hong Kong Polytechnic University
Keith C.C. Chan, Hong Kong Polytechnic University

**(CACH-Poster) Computer Applications in
Health Care**

**Development of a Collaborative Environment
Applied to Pediatric Oncology**

André Luiz Miranda da Rosa, Universidade de São Paulo
Ilana de A. Souza, Universidade de São Paulo
Adilson Yuuji Hira, Universidade de São Paulo
Marcelo Knörich Zuffo, Universidade de São Paulo

**A New Similarity Measure for Histograms Applied
to Content-based Retrieval of Medical Images**

Joaquim C. Felipe, University of de São Paulo
Agma J.M. Traina, University of São Paulo at São Carlos
Caetano Traina Jr, University of São Paulo at São Carlos

(CLAT-Poster) Computer Law and Advanced Technologies

Deontic Relevant Logic as the Logical Basis for Legal Information Systems
Jingde Cheng, Saitama University

(CSP-Poster) Constraint Solving and Programming

From Satisfiability to Consistency through Certificates. Application to Partially Defined Constraints

Arnaud Lallouet, University of Orleans
Andrei Legtchenko, University of Orleans

(CM-Poster) Coordination Models, Languages and Applications

Towards Chemical Coordination for Grids

Yann Radenac, IRISA, University of Rennes 1
Pascal Fradet, INRIA
Jean-Pierre Banâtre, IRISA, University of Rennes 1

An Abstract Architecture for Semantic Service Coordination in Agent-based Intelligent Peer-to-Peer Environments

Alberto Fernández, University Rey Juan Carlos
Sascha Ossowski, University Rey Juan Carlos
César Cáceres, Rey Juan Carlos University
Matteo Vasirani, University Rey Juan Carlos

(DTTA-Poster) Database Theory, Technology, and Applications

A Memory Subsystem with Comparator Arrays for Main Memory Database Operations

Jun Miyazaki, Graduate School of Information Science, Japan

Stochastic Study of Real-Time Transactions Success Ratio

Samy Semghouni, University of Le Harve, Lebon
Bruno Sadeg, University of Le Harve, Lebon
Laurent Amanton, University of Le Harve, Lebon
Alexandre Berred, University of Le Harve, Lebon

An Accuracy-Aware Compression Technique for Multidimensional Data Cubes

Alfred Cuzzocrea, University of Calabria, Italy

(DM-Poster) Data Mining

Semi-Supervised Outlier Detection

Jing Gao, Michigan State University
Haibin Cheng, Michigan State University
Pang-Ning Tan, Michigan State University

CLUC: A Natural Clustering Algorithm for Categorical Datasets based on Cohesion

Nematollah Shiri, Concordia University
Aida Nematollah, Concordia University

Bias-free Hypothesis Evaluation in Multirelational Domains

Stefan Wrobel, Fraunhofer AIS & Univ. Bonn
Christine Körner, Fraunhofer AIS

(DADS-Poster) Dependable and Adaptive Distributed Systems

Distributed Context Management in a Mobility and Adaptation Enabling Middleware (MADAM)

Marius Mikalsen, SINTEF ICT
Nearchos Paspallis, University of Cyprus
Jacqueline Floch, SINTEF ICT
Erlend Stav, SINTEF ICT
George A. Papadopoulos, University of Cyprus
Akis Chimaris, University of Cyprus

Analysis of Deployment Dependencies in Software Components

Meriem Belguidoum, ENST Bretagne
Fabien Dagnat, ENST Bretagne

A Framework for (Re)Deploying Components in Distributed Real-time and Embedded Systems

Nishanth Shankaran, Vanderbilt University
Jaiganesh Balasubramanian, Vanderbilt University
Douglas Schmidt, Vanderbilt University
Gautam Biswas, Vanderbilt University
P. Lardieri, Lockheed Martin Advanced Technology Labs
E. Mulholland, Lockheed Martin Advanced Technology Labs
T. Damiano, Lockheed Martin Advanced Technology Labs

(DSGC-Poster) Distributed Systems and Grid Computing

ALTER: First Step towards Dependable Grids

Hai Jin, Huazhong University of Science and Tech.
Xuanhua Shi, Huazhong University of Science and Tech.
Weizhong Qiang, Huazhong University of Science and Tech.

A Black-Box Approach for Web Application SLA

Noël De Palma, INRIA Rhone-Alpes - SARDES project
Jeremy Philippe, INRIA
Sara Bouchenak, Joseph Fourier University
Fabienne Boyer, Joseph Fourier University
Daniel Hagimont, INRIA

(DE-Poster) Document Engineering

Evaluation of a Language Identification System for Mono- and Multilingual Text Documents

Olga Artemenko, University of Hildesheim, Germany
Thomas Mandl, University of Hildesheim, Germany
Christa Womser-Hacker, University of Hildesheim, Germany

Finding Optimal Linear Measures for Feature Selection in Text Categorization

Elena Montañés, University of Oviedo, Spain
E.F. Combarro, University of Oviedo, Spain
José Ranilla, University of Oviedo, Spain

Comparisons of File Formats for Image Transmission through Networks

Rafael Dueire Lins, Universidade Federal de Pernambuco, Brazil
Charlana Rodrigues, Siemens Communications, Brazil

(ECT-Poster) Electronic Commerce Technologies

Dominance and Ranking Issues Applying Interval Techniques in Pre-Negotiations for Services

Petco Tsvetinov, Queensland University of Technology
Alan Underwood, Queensland University of Technology
Tiazan Chan, Queensland University of Technology

**(EMBS-Poster) Embedded Systems:
Applications, Solutions and Techniques**

**On Bounding Energy Consumption in Dynamic,
Real-Time Embedded Systems**

Haisang Wu, Juniper Networks, Inc.
Binoy Ravindran, Virginia Tech
E. Douglas Jensen, The MITRE Corporation

**File System Framework for Managing &
Programming Sensor Networks**

Bhanu Pisupati, Indiana University
Geoffrey Brown, Indiana University

**Preliminary Performance Evaluation of an
Adaptive Dynamic Extensible Processor for
Embedded Applications**

Hamid Noori, Kyushu University
Kazuaki Murakami, Kyushu University

**(ECO-Poster) Evolutionary Computation and
Optimization**

**The Effects of Two Replacement Strategies on a
Genetic Algorithm for Scheduling Jobs on
Computational Grids**

Fatos Xhafa, Polytechnic University of Catalonia
Bernat Duran, Polytechnic University of Catalonia

(IAR-Poster) Information Access and Retrieval

**An Evaluation of Resource Description Quality
Measures**

Mark Baillie, University of Strathclyde
Leif Azzopardi, University of Amsterdam
Fabio Crestani, University of Strathclyde

**MonA - An Extensible Framework for Web
Document Monitoring**

David Kensch, RWTH Aachen University
Christian Seeling, Fraunhofer-FIT
Andreas Becks, Fraunhofer Gesellschaft

**XML retrieval: What about using Contextual
Relevance?**

Karen Sauvagnat, IRIT-SIG
Lobna Hlaoua, IRIT-SIG
Mohand Boughanem, IRIT

**Recommendation-based Browsing Assistance for
Corporate Knowledge Portals**

Sergiu Gordea, University Klagenfurt
Markus Zanker, University Klagenfurt

**Study of the Usefulness of Known and New
Implicit Indicators and Their Optimal Combination
for Accurate Inference of Users Interests**

Bracha Shapira, Ben-Gurion University
Meirav Taieb-Maimon, Ben-Gurion University
Anny Moskowitz, Ben-Gurion University

**(MCA-Poster) Mobile Computing and
Applications**

**Combining Speech and Pen Input for Effective
Interaction in Mobile Geospatial Environments**

Julie Doyle, University College Dublin
Michela Bertolotto, University College Dublin

**Architectural Issues for a Location-aware Role-
based Access Control System**

Maria Luisa Damiani, University of Milan
Elisa Bertino, Purdue University

(MT-Poster) Model Transformation

An Action Semantics for MOF 2.0

Richard F. Paige, University of York
Dimitrios S. Kolovos, University of York
Fiona A.C. Polack, University of York

Towards a Model-Driven Join Point Model

Antonio Cicchetti, Università degli Studi dell'Aquila
Alfonso Pierantonio, Università degli Studi dell'Aquila
Walter Cazzola, University of Milano

**xEAI-Rules: Executable Models to Simulate
Enterprise Application Cooperation**

Nicolás López, University of Los Andes
Rubby Casallas, University of Los Andes
Milena Vela, University of Los Andes
Catalina Acero, University of Los Andes

(MV-Poster) Multimedia and Visualization

**Comparing Images with Distance Functions based
on Attribute Interaction**

Joaquim C. Felipe, University of Sao Paulo, Brazil
Paulo M.A. Marquez, University of Sao Paulo, Brazil
André G.R. Balan, University of Sao Paulo, Brazil
Caetano Traina Jr, University of Sao Paulo, Brazil
Agma J.M. Traina, University of Sao Paulo, Brazil

Video Summarization by k-medoid Clustering

Youssef Hadi University of Mohamed, Morocco
Fedwa Essannouni, University of Mohamed, Morocco
Rachid Oulad Haj Thami, University of Mohamed, Morocco

**(OOPS-Poster) Object-Oriented Programming
Languages and Systems**

**On Using OO Techniques to Establish Workflow
Conformance**

Umesh Bellur, IIT Bombay, Powai

**(OSAA-Poster) Operating Systems and
Adaptive Applications**

**The Overhead Model of Word-level and Page-level
Incremental Checkpointing**

Gwangil Jeon, Korea Polytechnic University
Haklin Kimm, University of Pennsylvania
Junyoung Heo, Seoul National University

(OE-Poster) Organizational Engineering

**Reference Modeling and Method Construction - A
Design Science Perspective**

Robert Winter, University of St. Gallen
Joachim Schelp, University of St. Gallen

**Morphogenetic Constraint-Satisfaction Based
Approach for Organizational Engineering**

Doji Lokku, Tata Consultancy Services
Kesav V. Nori, Tata Consultancy Services

Modeling Organizational Actors and Business Processes

Artur Caetano, Technical University of Lisbon
Jose, Tribolet, Technical University of Lisbon

Evaluation Measures for Business Process Models

Elvira Rolón Aguilar, University of Castilla-La Mancha
Francisco Ruiz, University of Castilla-La Mancha
Félix Garcia, University of Castilla-La Mancha
Mario Piattini, University of Castilla-La Mancha

(PSC-Poster) Programming for Separation of Concerns

Graphical Modelling For Aspect Oriented SA

Elena Navarro, Universidad de Castilla-La Mancha
Jennifer Pérez, Universidad Politécnica de Valencia
Patricio Letelier, Universidad Politécnica de Valencia
Isidro Ramos, Universidad Politécnica de Valencia

A Semantic Model for Safe Protocol Interaction

Sebastian Gutierrez-Nolasco, University of California, Irvine
Carolyn Talcott, SRI International

(PL-Poster) Programming Languages

Supporting Transparent Evolution of Component Interfaces

Ulrik P. Schultz, University of Southern Denmark
Emanuela P. Lins, University of Aarhus

A Deterministic Technique for Extracting Keyword based Grammar Rules from Programs

Alpana Dubey, Indian Institute of Technology, Kanpur
Pankaj Jalote, Indian Institute of Technology, Kanpur
Sanjeev Kumar Aggarwal, Indian Institute of Technology, Kanpur

(RAC-Poster) Reliable Computations and their Applications

Inner Approximation of Distance Constraints with Existential Quantification of Parameters

Carlos Grandon, INRIA, projet COPRIN
Alexandre Goldsztejn, University of Nice-Sophia Antipolis

(RDRC-Poster) Semantic-Based Resource Discovery, Retrieval and Composition

Dynamic Service Discovery and Mediation in the Insurance Industry

John Gilman, Webify Solutions

Hybrid Ontology-based Matchmaking for Service Discovery

Michele Melchiori, Università di Brescia
Valeria De Antonellis, University of Brescia
Devis Bianchini, Univ. Of Brescia
Denise Salvi, University of Brescia

A Framework for Content-Based Image Retrieval Fully Exploiting the Semantics of Annotation

Eugenio Di Sciascio, Politecnico Di Bari
Tommaso Di Noia, Politecnico Di Bari
Francesco M. Donini, Università della Toscana

(SE-Poster) Software Engineering: Applications, Practices and Tools

On Contracting Different Behavioral Properties in Component-Based Systems

Philippe Collet, University of Nice - Sophia
Alain Ozanne, France Telecom R&D Division
Nicolas Rivierre, France Telecom R&D Division

Verification of a Scheduler in B through a Timed Automata Specification

Odile Nasr, Paul Sabatier University
JeanPaul Bodeveix, Paul Sabatier University
Mamoun Filali, Paul Sabatier University
Miloud Rached, Paul Sabatier University

A Security Specification Verification Technique Based on the International Standard ISO/IEC 15408

Shoichi Morimoto, Saitama University
Shinjiro Shigematsu, Saitama University
Yuichi Goto, Saitama University
Jingde Cheng, Saitama University

(SV-Poster) Software Verification

Symmetry in Event Structures

Jianmin Jiang, Chinese Academy of Sciences
Jinzhao Wu, Chinese Academy of Sciences
Donghuo Chen, Chinese Academy of Sciences

ARCATS - A Scalable Compositional Analysis Tool Suite

Yung-Pin Cheng, National Taiwan Normal Univ.
Hong-Yi Wang, National Taiwan Normal Univ.
Yu-Ru Chen, National Taiwan Normal Univ.

(TRECK-Poster) Trust, Recommendations, Evidence, and other Collaborative Know-how

Trust-Decisions on the Base of Maximal Information of Recommended Direct-Trust

Uwe Roth, University of Luxembourg
Volker Fusenig, University of Luxembourg

(UC-Poster) Ubiquitous Computing

Methods and Guidelines for the Design and Development of Domestic Ubiquitous Computing Applications

Lucia Terrenghi, LMU University of Munich
Albrecht Schmidt, LMU University of Munich

19:00 – 21:00

RECEPTION AT MUNICIPALITY OF DIJON

SALLE DE FLORE

(DEPART AT 18:15)

TUESDAY APRIL 25, 2006

08:00 – 18:00 **SALLE DU CONSEIL**
REGISTRATION**08:30 – 10:00** **AMPHI CLAUDE BERNARD****(BIO-1) Bioinformatics***Mathew J. Palakal, Indiana University Purdue University, USA*
*William Perrizo, North Dakota State University, USA***A Constraint Logic Programming Approach to 3D Structure Determination of Large Protein Complexes***Enrico Pontelli, New Mexico State University*
Alessandro Dal Palu', University of Udine
Jing He, New Mexico State University
*Yongang Lu, New Mexico State University***A Time-Dependent Extension of Gillespie Algorithm for Biochemical Stochastic π -calculus***Paola Lecca, University of Trento – Italy***Two-phase Clustering Strategy for Gene Expression Data Sets***Dirk Habich, Dresden University of Technology*
Thomas Wächter, Dresden University of Technology
Wolfgang Lehner, Dresden University of Technology
*Christian Pilarsky, Dresden University of Technology***Efficient Discovery of Loosely Structured Motifs in Biological Data***Giorgio Terracina, Universita' della Calabria*
Fabio Fassetti, Universita' della Calabria
*Gianluigi Greco, Universita' della Calabria***08:30 – 10:00** **AMPHI ALBERT RECOURA****(RDRC-1) Semantic-Based Resource Discovery, Retrieval and Composition***Eugenio Di Sciascio, SinsInfLab Politecnico di Bari, Italy*
Francesco M. Donini, Universita' di Viterbo, Italy
*Tommaso Di Noia, SinsInfLab Politecnico di Bari, Italy***Web Service Selection Mechanisms in the Web Service Execution Environment (WSMX)***Mick Kerrigan, Digital Enterprise Research Institute***Efficient Query Routing for Information Retrieval in Semantic Overlays***Hai Jin, Huazhong University of Science and Tech.*
Xiaomin Ning, Huazhong University of Science and Tech.
Hanhua Chen, Huazhong University of Science and Tech.
*Zuoning Yin, Huazhong University of Science and Tech.***An Approach for Identifying Attribute Correspondences in Multilingual Schemas***Hongding Wang, Peking University*
Shiwei Tang, Peking University
Yunhai Tong, Peking University
*Dongqing Yang, Peking University***Trading Services in Ontology-driven Markets***Steffen Lamparter, University of Karlsruhe*
*Björn Schnizler, University of Karlsruhe***08:30 – 10:00** **AMPHI MAURICE GEVREY****(MCA-1) Mobile Computing and Applications***Hong Va Leong, Hong Kong Polytechnic University, China*
*Alvin Chan, Hong Kong Polytechnic University, China***How to Reuse Existing Interactive Applications in Ubiquitous Computing Environments?***Tatsuo Nakajima, Waseda University***Design and Implementation of A Context-Aware Decision Algorithm for Heterogeneous Networks***Tansir Ahmed, BenQ Mobile*
Kyandoghene Kyamakya, Universität Klagenfurt
*Markus Ludwig, BenQ Mobile***A Benchmark on SOAP's Transport Protocols Performance For Mobile Applications***Khoi Anh Phan, RMIT University*
Zahir Tari, RMIT University
*Peter Bertok, RMIT University***08:30 – 10:00** **AMPHI PAUL PARIS****(CF-1) Computer Forensics***Judie Mulholland, Florida State University, USA***The Advent of Trusted Computing: Implications for Digital Forensics***Judie Mulholland, FSU / Florida Cybersecurity Institute*
*Mike Burmester, Florida State University***Investigating 'Internet Crimes Against Children' (ICAC) Cases in the State of Florida***Judie Mulholland, FSU / Florida Cybersecurity Institute*
*Bob Breeden, Florida Department of Law Enforcement***Automated Recognition of Event Scenarios for Digital Forensics***George Mohay, Queensland University of Technology*
Jonathon Abbott, Queensland University of Technology
Jim Bell, Defence Science and Technology Organisat
Andrew Clark, Queensland University of Technology
*Olivier De Vel, Defence Science and Technology Organisat***Identification of Parameters and Restoration of Motion Blurred Images***Karm Veer Arya, I.I.T. Kanpur*
Ravindra Lokhande, I.I.T. Kanpur
*Phalguni Gupta, I.I.T. Kanpur***08:30 – 10:00** **AMPHI NICEPHORE NIEPCE****(SV-1) Software Verification***Fausto Spoto, University of Verona, Italy***A UML Model Consistency Verification Approach Based on Meta-modeling Formalization***Hugues Malgouyres, LESIA/INSA Toulouse*
*Gilles Motet, LESIA/INSA Toulouse***Modere: The Model-checking Engine of Rebeca***Mohammad Mahdi Jaghoori, Sharif University of Technology*
Ali Movaghar, Sharif University of Technology and IPM
*Marjan Sirjani, University of Tehran and IPM***Enhancing Program Verifications by Restricting Object Types***Cong-Cong Xing, Nicholls State University*

Abstract Non-Interference in a Fragment of Java Bytecode

Damiano Zanardini, Università di Verona

10:00 – 10:30 HALL OF SCIENCES MIRANDE
COFFEE BREAK

10:30 – 12:00 AMPHI CLAUDE BERNARD

(BIO-2) Bioinformatics

Mathew J. Palakal, Indiana University Purdue University, USA
William Perrizo, North Dakota State University, USA

PackageBLAST: An Adaptive Multi-Policy Grid Service for Biological Sequence Comparison

Marcelo Sousa, University of Brasilia
Alba Cristina M.A. Melo, University of Brasilia

Protein Classification Using Transductive Learning on Phylogenetic Profiles

Li Liao, University of Delaware
Roger Craig, University of Delaware

MACE: Lossless Compression and Analysis of Microarray Images

Robert Bierman, San Francisco State University
Charles Parsons, University of Vermont
Rahul Singh, San Francisco State University
Nidhi Maniyar, San Francisco State University

An Integrated Computational Proteomics Method to Extract Protein Targets for Fanconi Anemia Studies

Jake Yue Chen, IUPUI
Mu Wang, Indiana University
Changyu Shen, Indiana University
Sarah L. Pinkerton, Indiana University

10:30 – 12:00 AMPHI ALBERT RECOURA

(RDRC-2) Semantic-Based Resource Discovery, Retrieval and Composition

Eugenio Di Sciascio, SinsInfLab Politecnico di Bari, Italy
Francesco M. Donini, Università di Viterbo, Italy
Tommaso Di Noia, SinsInfLab Politecnico di Bari, Italy

Imprecise RDQL: Towards Generic Retrieval in Ontologies Using Similarity Joins

Christoph Kiefer, University of Zurich
Abraham Bernstein, University of Zurich

X-ARM: An Asset Representation Model for Component Repository Systems

Michael Schuenck, Federal University of Paraíba
Yuri Feitosa Negócio, Federal University of Paraíba
Sindolfo Miranda Filho, Federal University of Paraíba
Jorge Dias Jr., Federal University of Paraíba
Glédson Elias, Federal University of Paraíba

A Dissimilarity Measure for ALC Concept Descriptions

Nicola Fanizzi, Università degli studi di Bari
Claudia d'Amato, University of Bari
Floriana Esposito, University of Bari

Semantic-Based Information Retrieval of Biomedical Data

Ali R. Hurson, The Pennsylvania State University
Peng Yan, The Pennsylvania State University
Yu Jiao, Oak Ridge National Laboratory
Thomas E. Potok, Oak Ridge National Laboratory

10:30 – 12:00 AMPHI MAURICE GEVREY

(MCA-2) Mobile Computing and Applications

Hong Va Leong, Hong Kong Polytechnic University, China
Alvin Chan, Hong Kong Polytechnic University, China

Handheld Devices for Cooperative Educational Activities

Marco Sá, Faculty of Sciences University of Lisbon
Luís Carriço, Faculty of Sciences, University of Lisbon

A Spatiotemporal Uncertainty Model of Degree 1.5 for Continuously Changing Data Objects

Byunggu Yu, University of Wyoming

Distributed IPv6 Addressing Technique for Mobile Ad-hoc Networks

Dongkeun Lee, Konkuk University
Keecheon Kim, Konkuk University
Jaepil Yoo, Konkuk University
Hyunsik Kang, Konkuk University
Kyunglim Kang, Samsung Advanced Institute of Technology

Statistical Buffering for Streaming Media Data Access in a Mobile Environment

Qing Li, City Univ. of Hong Kong
Jian Zhai, City Univ. of Hong Kong
Xiang Li, City Univ. of Hong Kong

10:30 – 12:00 AMPHI PAUL PARIS

(IAR-3) Information Access and Retrieval

Fabio Crestani, University of Strathclyde, UK
Gabriella Pasi, ITC-CNR, Italy

Investigating the Use of Summarisation for Interactive XML Retrieval

Zoltán Szilávik, Queen Mary University of London
Anastasios Tombros, Queen Mary University of London
Mounia Lalmas, Queen Mary University of London

Email Classification for Automated Service Handling

Dan Smith, University of East Anglia
Ross Tailby, Antech Engineering Ltd
Richard Dean, Antech Engineering Ltd
Ben Milner, University of East Anglia

Automatic Structured Query Transformation Over Distributed Digital Libraries

M. Elena Renda, IIT - CNR
Umberto Straccia, ISTI - CNR

Relevance Feedback Methods for Logo and Trademark Image Retrieval on the Web

Euripides G.M. Petrakis, Technical University of Crete (TUC)
Evangelos E. Milios, Dalhousie University
Klaydios Kontis, Technical University of Crete (TUC)
Epimenidis Voutsakis, Technical University of Crete (TUC)

10:30 – 12:00 AMPHI NICEPHORE NIEPCE

(SV-2) Software Verification

Lunjin Lu, Oakland University, USA

Static Analysis of Time Bounded Reactive Properties of Boolean Symbols

Guillaume Capron, Ecole Polytechnique

Java Bytecode Specification and Verification

Mariela Pavlova, INRIA

Lilian Burdy, INRIA

Transformation of B Specifications into UML Class Diagrams and State Machines

Stephan Merz, LORIA

Houda Fekih, Université de Tunis El Manar

Leila Jemni Ben Ayed, Université de Tunis El Manar

The Meta-Object Facility Typed

Iman Poernomo, King's College London

12:00 – 14:00 RESTAURANT MONTMUZARD

LUNCH BREAK

14:00 – 15:30 AMPHI CLAUDE BERNARD

(BIO-3) Bioinformatics

Mathew J. Palakal, Indiana University Purdue University, USA

William Perrizo, North Dakota State University, USA

BioChain: Lexical Chaining Methods for Biomedical Text Summarization

Lawrence Reeve, Drexel University

Ari D. Brooks, Drexel University College of Medicine

Hyoil Han, Drexel University

Mining and Analyzing the Topological Structure of Protein-Protein Interaction Networks

Daniel Duanqing Wu, Drexel University

Xiaohua Hu, Drexel University

Innovative Computational Methods for Transcriptomic Data Analysis

Michael A. Langston, University of Tennessee

Andy D. Perkins, University of Tennessee

Arnold M. Saxton, University of Tennessee

Jon A. Scharff, University of Tennessee

Brynn H. Voy, Oak Ridge National Laboratory

An Extension of Dead End Elimination for Protein Side-Chain Conformation using Merge-Decoupling

Hon Wai Leong, National University of Singapore

Ket Fah Chong, National University of Singapore

14:00 – 15:30 AMPHI ALBERT RECOURA

(SEC-1) Computer Security

Giampaolo Bella, Universita' di Catania, Italy

An Initial Analysis and Presentation of Malware Exhibiting Swarm-Like Behavior

Fernando C. Colón Osorio, Wireless System Security Research Lab

Zachi Kloppman, Worcester Polytechnic Institute

Noxes: A Client-Side Solution for Mitigating Cross-Site Scripting Attacks

Engin Kirda, Technical University of Vienna

Christopher Kruegel, Technical University of Vienna

Nenad Jovanovic, Technical University of Vienna

Giovanni Vigna, UCSB

Lost in Just the Translation

Ryan Stutsman, Purdue University

Mikhail Atallah, Purdue University

Christian Grothoff, UCLA

Krista Grothoff, Purdue University

To Infinity and Beyond or, Avoiding the Infinite in Security Protocol Analysis

James Heather, University of Surrey

Steve Schneider, University of Surrey

14:00 – 15:30 AMPHI MAURICE GEVREY

(MCA-3) Mobile Computing and Applications

Hong Va Leong, Hong Kong Polytechnic University, China

Alvin Chan, Hong Kong Polytechnic University, China

An Adaptive Energy Efficient Cache Invalidation Scheme for Mobile Databases

Alok Madhukar, University of Calgary

Reda Alhajj, University of Calgary and Global University

A Content Classification and Filtering Server for the Internet

Marcos Forte, Santo André Foundation

Wanderley Lopes de Souza, Federal University of São Carlos

Antonio Francisco do Prado, Federal University of São Carlos

Semantically Enhanced Enforcement of Mobile Consumer's Privacy Preferences

Mahmoud Youssef, Arab Academy for Science and Technology

Nabil R. Adam, Rutgers University

Vijayalakshmi Atluri, Rutgers University

Scheduling Dependent Items in Data Broadcasting Environments

Hao-Ping Hung, National Taiwan University

Jen-Wei Huang, National Taiwan University

Jiun-Long Huang, National Chiao Tung University

Ming-Syan Chen, National Taiwan University

14:00 – 15:30 AMPHI PAUL PARIS

(IAR-4) Information Access and Retrieval

Fabio Crestani, University of Strathclyde, UK

Gabriella Pasi, ITC-CNR, Italy

An Innovative Approach to Intelligent Information Filtering

Randa Kassab, LORIA - INRIA Lorraine

Jean-Charles Lamirel, LORIA

Template Detection for Large Scale Search Engines

Liang Chen, NGN Lab

Shaozhi Ye, University of California, Davis

Xing Li, Tsinghua University

Undue Influence: Eliminating the Impact of Link Plagiarism on Web Search Rankings

Baoning Wu, Lehigh Univ

Brian D. Davison, Lehigh Univ.

Exploiting Partial Decision Trees for Feature Subset Selection in e-Mail Categorization

Helmut Berger, EC3
Dieter Merkl, Technische Universität Wien
Michael Dittenbach, EC3

14:00 – 15:30 AMPHI NICEPHORE NIEPCE

(PL-1) Programming Languages

Marjan Mernik, University of Maribor, Slovenia

Challenges in the Compilation of a Domain Specific Language for Dynamic Programming

Peter Steffen, Bielefeld University
Robert Giegerich, Bielefeld University

Implementing an Embedded GPU Language by Combining Translation and Generation

Calle Lejdfors, Lund University
Lennart Ohlsson, Lund University

KALA: Kernel Aspect Language for Advanced transactions

Johan Fabry, Vrije Universiteit Brussel
Theo D'Hondt, Vrije Universiteit Brussel

Efficient First-Class Generics on Stock Java Virtual Machines

Robert Cartwright, Rice University
James Sasitorn, Rice University

15:30 – 16:00 HALL OF SCIENCES MIRANDE

COFFEE BREAK

16:00 – 17:55 AMPHI CLAUDE BERNARD

(MV-2) Multimedia and Visualization

Virginie Sans, University of Cergy Pontoise, France

Hierarchical organization of a set of Gaussian mixture speaker models for scaling up indexing and retrieval in audio documents

J.E. Rougui, Mohammed V University, Morocco
M. Rziza, Mohammed V University, Morocco
D. Aboutajdine, Mohammed V University, Morocco
M. Gelgon, l'universite de Nantes, France
J. Martinez, l'universite de Nantes, France

Dynamic Context Adaptation in Multimedia Documents

Paola Bertolotti, Universita di Torino, Italy
Ombretta Gaggi, Universita Ca' Foscari, Italy
Maria Luisa Sapino, Universita di Torino, Italy

Dynamic Consistency Checking for Temporal and Spatial Relations in Multimedia Presentations

Susan Elias, Sri Venkateswara College of Engineering, India
K.S. Easwarakumar, Anna University, India
Richard Chbeir, Bourgogne University, France

Navigating with Inheritance in Hypermedia Presentations

Virginie Sans, University of Cergy Pontoise, France
Dominique Laurent, University of Cergy Pontoise, France

Efficient Target Search with Relevance Feedback for Large CBIR Systems

Danzhou Liu, University of Central Florida, USA
Kien A. Hua, University of Central Florida, USA
Khanh Vu, University of Central Florida, USA
Ning Yu, University of Central Florida, USA

16:00 – 17:55 AMPHI ALBERT RECOURA

(SEC-2) Computer Security

Peter Y.A. Ryan, University of Newcastle upon Tyne, UK

SF-HME System: A Hierarchical Mixtures-of-Experts Classification System for Spam Filtering

Stefanos Gritzalis, University of the Aegean
Petros Belsis, University of the Aegean
Kostas Fragkos, NTUA
Christos Skourlas, TEI of Athens

An Anomaly-driven Reverse Proxy for Web Applications

Giovanni Vigna, UCSB
Christopher Kruegel, Technical University of Vienna
Engin Kirda, TU Vienna
Fredrik Valeur, UCSB

Bootstrapping Multi-Party Ad-Hoc Security

Michael Goldsmith, Formal Systems (Europe) Ltd
A. W. Roscoe, Oxford University
Ming Xiao, Oxford University
Sadie Creese, QinetiQ

Extending Noninterference Properties to the Timed World

A.W. Roscoe, Oxford University
Huang Jian, Oxford University

Improving Address Space Randomization with a Dynamic Offset Randomization Technique

Haizhi Xu, Syracuse University
Steve J. Chapin, Syracuse University

16:00 – 17:55 AMPHI MAURICE GEVREY

(RCA-1) Reliable Computations and their Applications

*Martine Ceberio, University of Texas at El Paso, USA
Vladik Kreinovich, University of Texas at El Paso, USA
Michael Rueher, Universite de Nice ESSI, France*

On the Numerical Solution to Linear Problems using Stochastic Arithmetic

Rene Alt, Univ. Pierre et Marie Curie
Svetoslav Markov, Institute for Mathematics & Informatics
Jean-Luc Lamotte, Univ. Pierre et Marie Curie

Quantum Versions of k-CSP Algorithms: a First Step Towards Quantum Algorithms for Interval-Related Constraint Satisfaction Problems

Vladik Kreinovich, University of Texas at El Paso
Evgeny Dantsin, Roosevelt University
Alexander Wolpert, Roosevelt University

Interval-Based Robust Statistical Techniques for Non-Negative Convex Functions, with Application to Timing Analysis of Computer Chips

Martine Ceberio, The University of Texas at El Paso
Michael Orshansky, University of Texas at Austin
Gang Xiang, University of Texas at El Paso
Wei-Shen Wang, University of Texas at Austin

A Branch and Prune Algorithm for the Approximation of Non-linear AE-solution Sets
Alexandre Goldsztejn, University of Nice-Sophia Antipolis

Pseudozero Set of Interval Polynomials
Philippe Langlois, University of Perpignan
Stef Graillat, University of Perpignan

16:00 – 17:55 AMPHI PAUL PARIS

(CM-1) Coordination Models, Languages and Applications

Allesandro Ricci, Universita di Bologna, Italy
Ronaldo Menezes, Florida Institute of Technology, USA

A Coordination Model for the Semantic Web
Robert Tolksdorf, Freie Universität Berlin
Elena Paslaru Bontas, Freie Universität Berlin
Lyndon J.B. Nixon, Freie Universität Berlin

Defining Coordination in Multi-Agent Systems within an Agent Oriented Software Engineering Methodology

Jorge Gómez-Sanz, Universidad Complutense de Madrid
Juan Pavón, Universidad Complutense Madrid

BTS: A Byzantine Fault-Tolerant Tuple Space
Alysson Neves Bessani, Universidade Federal de Santa Catarina
Joni da Silva Fraga, Universidade Federal de Santa Catarina
Lau Cheuk Lung, PUC-PR

Making Tuple Spaces Physical with RFID Tags
Marco Mamei, Università di Modena e Reggio Emilia
Renzo Quagliari, Università di Modena e Reggio Emilia
Franco Zambonelli, Università di Modena e Reggio Emilia

The Fading Concept in Tuple-Space Systems
Ronaldo Menezes, Florida Tech.
Alan Wood, University of York

16:00 – 17:55 AMPHI NICEPHORE NIEPCE

(ECO-1) Evolutionary Computation and Optimization

Bryant A. Jstrom, St. Cloud State University, USA

Adaptive Mutation with Fitness and Allele Distribution Correlation for Genetic Algorithms
Shengxiang Yang, University of Leicester
Şima Uyar, Istanbul Technical University

Analysis of an Evolutionary Algorithm with HyperMacromutation and Stop at First Constructive Mutation Heuristic for Solving Trap Functions

Vincenzo Cutello, University of Catania
Giuseppe Nicosia, University of Catania
Pietro Simone Oliveto, University of Catania

Real Coded Clonal Selection Algorithm for Unconstrained Global Optimization using a Hybrid Inversely Proportional Hypermutation Operator

Vincenzo Cutello, University of Catania
Giuseppe Nicosia, University of Catania
Mario Pavone, University of Catania
Giuseppe Narzisi, University of Catania

A-Brain: The Multiple Problem Solver
Mihai Oltean, Babes-Bolyai Univ.

18:00 – 19:00 AMPHI CLAUDE BERNARD
SIGAPP ANNUAL BUSINESS MEETING

WEDNESDAY APRIL 26, 2006

08:00 – 18:00 SALLE DU CONSEIL
REGISTRATION

08:00 – 08:30 AMPHI CLAUDE BERNARD
OPENING REMARKS

08:30 – 10:00 AMPHI CLAUDE BERNARD
KEYNOTE ADDRESS

Advanced Program Development using Abstract Interpretation
Dr. Manuel Hermenegildo
Technical University of Madrid and University of New Mexico
(See Abstract Above)

10:00 – 10:30 HALL OF SCIENCES MIRANDE
COFFEE BREAK

10:30 – 12:00 AMPHI CLAUDE BERNARD
(DM-1) Data Mining

Rosa Meo, Università di Torino, Italy

A Probability Analysis for Candidate-Based Frequent Item-Set Algorithms
Nele Dexters, University of Antwerp
Dirk Van Gucht, Indiana University
Paul Purdom, Indiana University

Associative Text Categorization Exploiting Negated Words
Paolo Garza, Politecnico di Torino
Elena Baralis, Politecnico di Torino

SMART-TV: A Fast and Scalable Nearest Neighbor Based Classifier for Data Mining
Taufik Abidin, North Dakota State University
William Perrizo, North Dakota State University

Embedded Predictive Modeling in a Parallel Relational Database
R. Natarajan, IBM T. J. Watson Research Center
A. Dorneich, IBM Software Group
E. Pednault, IBM T. J. Watson Research Center
F. Tiup, IBM T. J. Watson Research Center

10:30 – 12:00 AMPHI ALBERT RECOURA

(EMBS-1) Embedded Systems: Applications, Solutions and Techniques

Sandro Bartolini, University of Siena, Italy

Data Sharing Protocols for SMT Processors

Shi-Wu Lo, National Chung Cheng University

Efficient Initialization and Crash Recovery for Log-based File Systems over Flash Memory

Chin-Hsien Wu, National Taiwan University

Tei-Wei Kuo, National Taiwan University

Li-Pin Chang, National Chio-Tung University

A Domain-Specific Language for Multi-task Systems, Applying Discrete Controller Synthesis

Gwenaël Delaval, INRIA Rhône-Alpes

Éric Rutten, INRIA Futurs/LIFL

Selective Compilation via Fast Code Analysis and Bytecode Tracing

Giovanni Agosta, Politecnico di Milano

Stefano Crespi Reghizzi, Politecnico di Milano

Paolo Palumbo, Politecnico di Milano

Martino Sykora, Politecnico di Milano

10:30 – 12:00 AMPHI MAURICE GEVREY

(OOPS-1) Object-Oriented Programming Languages and Systems

Umesh Bellur, IIT Bombay Powai, India

Decoupling Classes with Inferred Interfaces

Friedrich Steimann, Fernuniversität in Hagen

Philip Mayer, Fernuniversität in Hagen

Andreas Meißner, IBM Ottawa Lab

The Social Network of Java Classes

Diego Puppini, ISTI-CNR

Fabrizio Silvestri, ISTI-CNR

powerJava: Ontologically Founded Roles in Object Oriented Programming Languages

Matteo Baldoni, Università di Torino

Guido Boella, Università di Torino

Leendert van der Torre, CWI

Escape Analysis for Synchronization Removal

Lei Wang, Beijing University

Xikun Sun, Beijing University

10:30 – 12:00 AMPHI PAUL PARIS

(CSP-1) Constraint Solving and Programming

Stefano Bistarelli, Univ. degli studi "G. D'Annunzio" di Chieti-Pescara, Italy

Eric Monfroy, University of Nantes, France

Barry O'Sullivan University College Cork, Ireland

A new Local Consistency for Weighted CSP Dedicated to Long Domains

Matthias Zytnicki, INRA

Christine Gaspin, INRA

Thomas Schiex, INRA

Enforcing Path Uniqueness in Internet Routing

Daniel Lucraft, Imperial College London

Andrew Eremin, Imperial College London

Farid Ajili, Imperial College London

A Constraint Solver for Sequences and its Applications

Nikolai Kosmatov, INRIA Lorraine

Efficient Interactive Configuration of Unbounded Modular Systems

Erik Roland van der Meer, IT University of Copenhagen

Andrzej Wasowski, IT University of Copenhagen

Henrik Reif Andersen, IT University of Copenhagen

10:30 – 12:00 AMPHI NICEPHORE NIEPCE

(DS-1) Data Streams

Jesus S. Aguilar-Ruiz, Pablo de Olavide University, Spain

Francisco J. Ferrer-Troyano, University of Seville, Spain

Evaluating the Intrinsic Dimension of Evolving Data Streams

Elaine P.M. de Sousa, University of São Paulo at São Carlos

Agma J.M. Traina, University of São Paulo at São Carlos

Caetano Traina Jr., University of São Paulo at São Carlos

Christos Faloutsos, Carnegie Mellon University

A Framework for Resource-aware Knowledge Discovery in Data Streams: A Holistic Approach with Its Application to Clustering

Mohamed Medhat Gaber, Caulfield School of Information Technology

Philip S. Yu, IBM T.J. Watson Research Center

Data Streams Classification by Incremental Rule Learning with Parameterized Generalization

Francisco Ferrer-Troyano, University of Seville, Spain

Jesus Aguilar-Ruiz, Pablo de Olavide University, Spain

Jose C. Riquelme, University of Seville, Spain

Discretization from Data Streams: Applications to Histograms and Data Mining

João Gama, LIACC

Carlos Pinto, LIACC

12:00 – 14:00 RESTAURANT MONTMUZARD

LUNCH BREAK

14:00 – 15:30 AMPHI CLAUDE BERNARD

(DM-2) Data Mining

Hasan M. Jamil, Wayne State University, USA

Rosa Meo, Università di Torino, Italy

Gill Dobbie, University of Auckland, New Zealand

Semantic Analysis of Web Site Audience

Jean-Pierre Norguet, ULB

Esteban Zimányi, ULB

Ralf Steinberger, JRC

Induction of Compact Decision Trees for Personalized Recommendation

Daniel Nikovski, MERL

Veselin Kulev, MIT

Effective Rule Induction from Labeled Graphs

Tamás Horváth, Fraunhofer Institute AIS

Stefan Wrobel, Fraunhofer AIS & Univ. Bonn

Susanne Hoche, University of Bristol

Expanding the Taxonomies of Bibliographic Archives with Persistent Long-Term Themes

Rene Schult, ITI
Myra Spiliopoulou, ITI

14:00 – 15:30 AMPHI ALBERT RECOURA

(EMBS-2) Embedded Systems: Applications, Solutions and Techniques

Sandro Bartolini, University of Siena, Italy

DA Concurrent Reactive Esterel Processor Based on Multi-Threading

Reinhard von Hanxleden, CAU Kiel
Xin Li, Christian-Albrechts-Universität zu

On Utility Accrual Processor Scheduling with Wait-Free Synchronization for Embedded Real-Time Software

Hyeonjoong Cho, Virginia Polytechnic Institute and State
Binoy Ravindran, Virginia Tech
E. Douglas Jensen, The MITRE Corporation

QoS Support for IEEE-1394 Requests

Chih-Yuan Huang, National Taiwan Univ.
Tei-Wei Kuo, National Taiwan Univ.
Ai-Chun Pang, National Taiwan Univ.

Branchless Cycle Prediction for Embedded Processors

Amirali Baniasadi, University of Victoria
Kaveh Jokar Deris, University of Victoria

14:00 – 15:30 AMPHI MAURICE GEVREY

(OOPS-2) Object-Oriented Programming Languages and Systems

Mirko Viroli, DEIS - Università di Bologna, Italy

Method Overloading and Overriding Cause Encapsulation Flaw

Antoine Beugnard, ENST Bretagne

Introducing Safe Unknown Types in Java-like Languages

Giovanni Lagorio, Università di Genova
Elena Zucca, Università di Genova

Union Types for Object-Oriented Programming

Atsushi Igarashi, Kyoto University
Hideshi Nagira, Kyoto University

Dynamic Instantiation-Checking Components

Nigamanth Sridhar, Cleveland State University

14:00 – 15:30 AMPHI PAUL PARIS

(CACH-1) Computer Applications in Health Care

*Valentin Masero, University of Extremadura, Spain
Pierre Collet, Université du Littoral (ULCO), France*

MEDIC: Mobile Diagnosis for Improved Care

Dympna O'Sullivan, University College Dublin
Eoin McLoughlin, University College Dublin
Michela Bertolotto, University College Dublin
David C. Wilson, University of North Carolina @ Charlotte

On Tracker Attacks in Health Grids

Andrew Simpson, University of Oxford
David Power, University of Oxford
Mark Slaymaker, University of Oxford

Digital Geometry Image Analysis for Medical Diagnosis

Shiaofen Fang, Indiana Univ Purdue Univ Indianapolis
Jiandong Fang, Indiana Univ Purdue Univ Indianapolis
Jeffrey Huang, Indiana Univ Purdue Univ Indianapolis
Mihran Tuceryan, Indiana Univ Purdue Univ Indianapolis

Hardware/Software 2D-3D Backprojection on a SoPC Platform

Nicolas Gac, INP Grenoble
Stéphane Mancini, INP Grenoble
Michel Desvignes, INP Grenoble

14:00 – 15:30 AMPHI NICEPHORE NIEPCE

(TRECK-1) Trust, Recommendations, Evidence, and other Collaborative Know-how

*Jean-Marc Seigneur, University of Geneva, Switzerland
Christian Damsgaard Jensen, Technical University of Denmark*

Trust[ed] in Computing, Signed Code and the Heat Death of the Internet

Jonathan A. Poritz, IBM ZRL

Improving Collaborative Filtering with Trust-based Metrics

Jianshu Weng, Nanyang Technological University
Chunyan Miao, Nanyang Technological University
Angela Goh, Nanyang Technological University

Trust-Enhanced Visibility for Personalized Document Recommendations

Claudia Hess, Bamberg University
Klaus Stein, Bamberg University
Christoph Schlieder, Bamberg University

STRUDEL: Supporting Trust for Dynamic Emergence of peering coalitions

Daniele Quercia, University College London
Licia Capra, UCL
Manish Lad, University College London
Stephen Hailes, University College London
Saleem Bhatti, University College London

15:30 – 16:00 HALL OF SCIENCES MIRANDE

COFFEE BREAK

16:00 – 17:55 AMPHI CLAUDE BERNARD

(DSGC-1) Distributed Systems and Grid Computing

*Robert van Engelen, Florida State University, USA
Madhu Govindaraju, Binghamton University, USA
Nectarios Koziris, National Technical Univ. of Athens, Greece
Kleanthis Psarris, University of Texas at San Antonio, USA*

Service-Oriented Grid Computation for Large-Scale Parameter Estimation in Complex Environmental Modeling

Kejing He, South China University of Technology
Shoubin Dong, South China University of Technology
Liquan Tang, South China University of Technology
Li Zheng, Chinese Academy of Science

Building the Functional Performance Model of a Processor

Alexey Lastovetsky, University College Dublin
Ravi Reddy, University College Dublin
Robert Higgins, University College Dublin

Grid Resource Discovery Based on Semantic P2P Communities

Juan Li, University of British Columbia
Son Vuong, University of British Columbia

FCAN: Flash Crowds Alleviation Network

Chenyu Pan, Saitama University
Norihiro Yoshida, Saitama University
Merdan Atajanov, Saitama University
Mohammad B. Hossain, Kyushu Sangyo University
Toshihiko Shimokawa, Kyushu Sangyo University

Improving the Performances of Proxy Cache Replacement Policies by Considering Infrequent Objects

Hon Wai Leong, National University of Singapore
Bo Guan, National University of Singapore

16:00 – 17:55 AMPHI ALBERT RECOURA

(PSC-1) Programming for Separation of Concerns

Emiliano Tramontana, Catania University, Italy
Ian Welch, Victoria University of Wellington, New Zealand

A Process for Separation of Crosscutting Grid Concerns

Nabor C. Mendonça, Universidade de Fortaleza
Paulo Henrique M. Maia, Universidade de Fortaleza
Vasco Furtado, Universidade de Fortaleza
Walfredo Cirne, Universidade Federal de Campina Grande
Katia Saikoski, TechnoPUC

Policy-driven Reflective Enforcement of Security Policies

Ian Welch, Victoria University of Wellington
Fan Lu, Victoria University of Wellington

Aspect-Specification Based on Structural Type Information

Stefan Hanenberg, University of Duisburg-Essen
Mohammed Al-Mansari, University of Duisburg-Essen
Rainer Unland, University of Duisburg-Essen

Separation of Concerns in Compiler Development Using Aspect-Oriented

Xiaoqing Wu, The University of Alabama at Birmingham
Barrett R. Bryant, The University of Alabama at Birmingham
Jeff Gray, The University of Alabama at Birmingham
Suman Roychoudhury, The University of Alabama at Birmingham
Marjan Memik, University of Maribor, Slovenia

Automatically Discovering Design Patterns and Assessing Concern Separations for Applications

Giuseppe Pappalardo, Università di Catania
Emiliano Tramontana, Università di Catania

16:00 – 17:55 AMPHI MAURICE GEVREY

(DTTA-1) Database Theory, Technology, and Applications

Ramzi A. Haraty, Lebanese American University, Lebanon
Apostolos N. Papadopoulos, Aristotle University, Greece
Junping Sun, Nova Southeastern University, USA

On the Transitive Closure Representation and Adjustable Compression

Yangjun Chen, University of Winnipeg, Canada
Donovan Cooke, University of Winnipeg, Canada

Incorporating Fuzziness in Xml and Mapping Fuzzy Relational Data into Fuzzy XML

Abhishek Gaurav, University of Calgary, Canada
Reda Alhajj, Global University, Lebanon

Ontology-based Intregation for Relational Databases

Dejing Dou, University of Oregon, USA
Paea LePendu, University of Oregon, USA

Conceptual Modeling of XML Data

Carlo Combi, University of Verona, Italy
Barbara Oliboni, University of Verona, Italy

MTree: An XML XPath Graph Index

P.Mark Pettovello, Wayne State University, USA
Farshad Fotouhi, Wayne State University, USA

16:00 – 17:55 AMPHI PAUL PARIS

(CACH-2) Computer Applications in Health Care

Valentin Masero, University of Extremadura, Spain
Pierre Collet, Université du Littoral (ULCO), France

Solving the Brachytherapy Seed Localization Problem using Geometric and Linear Programming Techniques

Vikas Singh, University at Buffalo
Lopamudra Mukherjee, University at Buffalo
Jinhui Xu, University at Buffalo
Kenneth Hoffmann, University at Buffalo

Approaches to Text Mining for Clinical Medical Records

Xiaohua Zhou, Drexel University
Hyoil Han, Drexel University
Isaac Chankai, Drexel University
Ann Prestrud, Drexel University
Ari Brooks, Drexel University College of Medicine

Visualization of Unstructured Text Sequences of Nursing Narratives

Shiaofen Fang, Indiana Univ Purdue Univ Indianapolis
Min Lwin, Indiana Univ Purdue Univ Indianapolis
Patricia Ebright, Indiana University

J-Ortho: An Open-Source Orthodontic Treatment Simulator

Maria Andréia Formico Rodrigues, University of Fortaleza
Wendel Bezerra Silva, University of Fortaleza
Rafael G. Barbosa, Universidade de Fortaleza
Isabel M. M. P. Ribeiro, University of Fortaleza
Milton E. B. Neto, Univeristy of Fortaleza

Effective Shape-based Retrieval and Classification of Mammograms

Joaquim C. Felipe, University of São Paulo
Agma J.M. Traina, University of São Paulo at São Carlos
Caetano Traina Jr, University of São Paulo at São Carlos
Marcela X. Ribeiro, University of São Paulo at São Carlos
Elaine P.M. Souza, University of São Paulo at São Carlos

16:00 – 17:55 AMPHI NICEPHORE NIEPCE

(TRECK-2) Trust, Recommendations, Evidence, and other Collaborative Know-how

*Jean-Marc Seigneur, University of Geneva, Switzerland
Christian Damsgaard Jensen, Technical University of Denmark*

Impact of Peer Incentive on the Dissemination of Polluted Content

Cristiano Costa, UFMG
Marisa Vasconcelos, UFMG
Jussara Almeida, UFMG
Virgilio Augusto, UFMG
Miranda Mowbray, HP Laboratories Bristol
Fabricio Benevenuto, UFMG

Information Trustworthiness Evaluation Based on Trust Combination

Yanjun Zuo, University of North Dakota
Brajendra Panda, University of Arkansas

A Fuzzy Model for Reasoning about Reputation in Web Services

Wanita Sherchan, Monash University
Seng W. Loke, Monash University
Shonali Krishnaswamy, Monash University

BambooTrust: Practical Scalable Trust Management for Global Public Computing

Evangelos Kotsovinos, Deutsche Telekom Laboratories
Aled Williams, University of Cambridge

***** SAC 2006 BANQUET *****

AT MARSANNAY CASTLE

(DEPART AT 18:30)

SEE REGISTRATION DESK FOR DETAILS

THURSDAY APRIL 27, 2006

08:00 – 12:00 SALLE DU CONSEIL

REGISTRATION

08:30 – 10:00 AMPHI CLAUDE BERNARD

(DM-3) Data Mining

*Hasan M. Jamil, Wayne State University, USA
Rosa Meo, Universita' di Torino, Italy
Gill Dobbie, University of Auckland, New Zealand*

Looking for Monotonicity Properties of a Similarity Constraint on Sequences

Ieva Mitasiunaite, LIRIS - INSA Lyon
Jean-François Boulicaut, LIRIS CNRS UMR 5205 - INSA Lyon

Mining Sequences with Temporal Annotations

Mirco Nanni, ISTI-CNR
Fosca Giannotti, KDD Lab ISTI-C.N.R.
Dino Pedreschi, CS Department University of Pisa
Fabio Pinelli, Università di Pisa

Discovery of Interesting Episodes in Sequence Data

Sharma Chakravarthy, The Univ. of Texas at Arlington
Ambika Srinivasan, The Univ. of Texas at Arlington
Dhawal Bhatia, The Univ. of Texas at Arlington

Exploit Sequencing to Accelerate Hot XML Query Pattern Mining

Qian Qian, CS Dept. Tsinghua Univ. Beijing, China
Jianhua Feng, CS, Tsinghua Univ. China
Jianyong Wang, CS, Tsinghua Univ. China
Lizhu Zhou, CS Dept. Tsinghua Univ. Beijing, China

08:30 – 10:00 AMPHI ALBERT RECOURA

(DE-1) Document Engineering

Rafael Dueire Lins, Universidade Federal de Pernambuco, Brazil

High Performance XSL-FO Rendering for Variable Date Printing

Fabio Giannetti, HP Laboratories, UK
Luiz Gustavo Fernandes, PPGCC-PUCRS, Brazil
Roger Timmers, HP Brazil R&D, Brazil

Managing duplicates in a web archive

Daniel Gomes, Universidade de Lisboa, Portugal
André L. Santos, Universidade de Lisboa, Portugal
Mário J. Silva, Universidade de Lisboa, Portugal

Angular Measures for Feature Selection in Text Categorization

E.F. Combarro, University of Oviedo, Spain
Elena Montañés, University of Oviedo, Spain
José Ranilla, University of Oviedo, Spain

Computing Edit Distances Between an XML Document and a Schema and its Application in Document Classification

Guangming Xing, Western Kentucky University, USA
Chaitanya R. Malla, Western Kentucky University, USA
Zhonghang Xia, Western Kentucky University, USA
Snigdha Dantala Venkata, Western Kentucky University, USA

08:30 – 10:00 AMPHI MAURICE GEVREY

(DADS-1) Dependable and Adaptive Distributed Systems

*Karl M. Göschka, Vienna University of Technology, Austria
Svein O. Hallsteinsen, SINTEF ICT, Norway
Rui Oliveira, Universidade do Minho, Portugal
Alexander Romanovsky, University of Newcastle upon Tyne, UK*

Verification of Coordinated Exception Handling

Fernando Castor Filho, State University of Campinas
Alexander Romanovsky, University of Newcastle upon Tyne
Cecilia Mary F. Rubira, State University of Campinas

Combining Supervised and Unsupervised Monitoring for Fault Detection in Distributed Computing Systems

Haifeng Chen, NEC Laboratories America
Guofei Jiang, NEC Laboratories America
Cristian Ungureanu, NEC Laboratories America
Kenji Yoshihira, NEC Laboratories America

Modeling of Component-based Adaptive Distributed Applications

Kurt Geihs, University of Kassel
Mohammad Ullah Khan, University of Kassel

Roland Reichle, University of Kassel
Arnor Solberg, SINTEF ICT
Svein Hallsteinsen, SINTEF ICT
Simon Merral, Condat AG

Proactive Resilience through Architectural Hybridization

Paulo Sousa, University of Lisboa
Nuno Ferreira Neves, University of Lisboa
Paulo Veríssimo, University of Lisboa

08:30 – 10:00 AMPHI PAUL PARIS

(MT-1) Model Transformation

Jean Bézivin, University of Nantes, France

On the Architectural Alignment of ATL and QVT

Ivan Kurtev, INRIA - LINA, University of Nantes
Frédéric Jouault, INRIA-LINA, University of Nantes

The MT Model Transformation Language

Laurence Tratt, King's College London

Advanced Model Transformation Language Constructs in the VIATRA2 Framework

Dániel Varró, Budapest Univ. of Technology and Econ.
András Balogh, Budapest Univ. of Techn. and Econ.

A Formal Framework to Generate XPD L Specifications from UML Activity Diagrams

Amel Mammar, University of Luxembourg
Nicolas Guelfi, University of Luxembourg

08:30 – 10:00 AMPHI NICEPHORE NIEPCE

(AI-1) AI and Computational Logic and Image Analysis

Hung, School of Computing and Soft. Eng., USA
Agostinho Rosa, LaSEEB -ISR - IST, Portugal

An Evidential Approach in Ensembles

Yaxin Bi, University of Ulster, UK
Werner Dubitzky, University of Ulster, UK

Solving First-Order Constraints in the Theory of Finite or Infinite Trees

Khalil Djelloul, Laboratoire d'Informatique Fondamentale de Marseille, France
Thi-Bich-Hanh Dao, Laboratoire d'Informatique Fondamentale d'Orleans, France

A Small-World Model of the Human Mind

Jose Luis Malaquias, University Coimbra, Portugal
Agostinho Claudio da Rosa, ISR-LaSEEB, Portugal
Carlos Maunel BA Correia, University Coimbra, Portugal

Facial Emotion Recognition by Adaptive Processing of Tree Structures

Jia-Jun Wong, Nanyang Technological University, Singapore
Siu-Yeung Cho, Nanyang Technological University, Singapore

**10:00 – 10:30 HALL OF SCIENCES MIRANDE
COFFEE BREAK**

10:30 – 12:00 AMPHI CLAUDE BERNARD

(DM-4) Data Mining

Hasan M. Jamil, Wayne State University, USA
Rosa Meo, Universita' di Torino, Italy
Gill Dobbie, University of Auckland, New Zealand

A Privacy Preserving Web Recommender System

Claudio Lucchese, Ca' Foscari U of Venice
Ranieri Baraglia, HPC-Lab ISTI-CNR
Salvatore Orlando, Ca' Foscari U of Venice
Massimo Serrano, HPC-Lab ISTI-CNR
Fabrizio Silvestri, HPC-Lab ISTI-CNR

Towards Low-Perturbation Anonymity Preserving Pattern Discovery

Francesco Bonchi, KDD Lab ISTI-C.N.R.
Maurizio Atzori, CS Department University of Pisa
Fosca Giannotti, KDD Lab ISTI-C.N.R.
Dino Pedreschi, CS Department University of Pisa

Privacy-Preserving SVM using Nonlinear Kernels on Horizontally Partitioned Data

Jaideep Vaidya, Rutgers University
Hwanjo Yu, University of Iowa
Xiaoqian Jiang, University of Iowa

On the Use of Spectral Filtering for Privacy Preserving Data Mining

Xintao Wu, UNC Charlotte
Songtao Guo, UNC Charlotte

10:30 – 12:00 AMPHI ALBERT RECOURA

(DE-2) Document Engineering

Rafael Dueire Lins, Universidade Federal de Pernambuco, Brazil

An Implicit Segmentation-based Method for Recognition of Handwritten Strings of Characters

Paulo Rodrigo Cavalin, PUCPR, Brazil
Alceu de Souza Britto Jr., PUCPR, Brazil
Flávio Bortolozzi, PUCPR, Brazil
Robert Sabourin, École de Technologie Supérieure, Canada
Luiz E. Soares Oliveira, PUCPR, Brazil

Detection and Segmentation of Tables and Math-Zones from Document Images

S. Mandal, Bengal Engineering and Science University, India
S.P. Chowdhury, Bengal Engineering and Science Univ., India
A.K. Das, Bengal Engineering and Science University, India
Bhabatosh Chanda, Indian Statistical Institute, India

A New Table Interpretation Methodology with Little Knowledge Base

Luiz Antonio Pereira Neves, UFCG, Brazil
João Marques de Carvalho, UFCG, Brazil
Jacques Facon, PUCPR, Brazil
Flávio Bortolozzi, PUCPR, Brazil

Binarizing and Filtering Historical Documents with Back-to-Front Interference

João Marcelo da Silva, Universidade Federal de Pernambuco, Brazil
Rafael Dueire Lins, Universidade Federal de Pernambuco, Brazil
Valdemar Cardoso da Rocha, Universidade Federal de Pernambuco, Brazil

10:30 – 12:00 AMPHI MAURICE GEVREY**(DADS-2) Dependable and Adaptive Distributed Systems**

Karl M. Göschka, Vienna University of Technology, Austria
Svein O. Hallsteinsen, SINTEF ICT, Norway
Rui Oliveira, Universidade do Minho, Portugal
Alexander Romanovsky, University of Newcastle upon Tyne, UK

Service Interface: A New Abstraction for Implementing and Composing Protocols

Olivier Rützi, EPFL
Pawel T. Wojciechowski, EPFL
André Schiper, EPFL

Post-Partition Reconciliation Protocols for Maintaining Consistency

Mikael Asplund, Linköping University
Simin Nadjm-Tehrani, Linköping University

From Spontaneous Total Order to Uniform Total Order: Different Degrees of Optimistic Delivery

Luis Rodrigues, Universidade de Lisboa
José Mocito, Faculty of Sciences, Universidade de Lisboa
Nuno Carvalho, Universidade de Lisboa

Revisiting 1-Copy Equivalence in Clustered Databases

Rui Oliveira, University of Minho
José Pereira, University of Minho
Alfrónio Correia, UMINHO
Edward Archibald, Emic Networks

10:30 – 12:00 AMPHI PAUL PARIS**(MT-2) Model Transformation**

Antonio Vallecillo, Universidad de Málaga, Spain

Model Transformations for Hypertext Modeling on Web Information Systems

Juan M. Vara, Rey Juan Carlos University
Paloma Cáceres, Rey Juan Carlos University
Valeria de Castro, Rey Juan Carlos University
Esperanza Marcos, Rey Juan Carlos University

Application Modelling using Reverse Engineering Techniques

Evangelos Sakkopoulos, RACTI
Theodora Katsimpa, RACTI
Giannis Tzimas, RACTI
Athanasios Tsakalidis, RACTI
Yannis Panagis, RACTI

Weaving Concerns in Model-based Development of Data-intensive Web Applications

Davide Di Ruscio, Università degli Studi dell'Aquila
Alfonso Pierantonio, Università degli Studi dell'Aquila
Antonio Cicchetti, Università degli Studi dell'Aquila

Compiling Model Transformation to EJB3-Specific Transformer Plugins

Daniel Varro, Budapest Univ. of Technology and Econ..
András Balogh, Budapest Univ. of Techn. and Econ.
András Pataricza, Budapest Univ. of Techn. and Econ.

10:30 – 12:00 AMPHI NICEPHORE NIEPCE**(AI-2) AI and Computational Logic and Image Analysis**

Hung, School of Computing and Soft. Eng., USA
Agostinho Rosa, LaSEEB –ISR – IST, Portugal

Adaptive Dynamic Run-length Coding for Image Segmentation

Sara Arasteh, Southern Polytechnic State University, USA
Chih-Cheng Hung, Southern Polytechnic State University, USA
Enmin Song, Huazhong University of Science and Technology, China

On Handling Conflicts between Rules with Numerical Features

Tony Lindgren, Stockholm University and Royal Institute of Technology, Sweden

(HHC-1) Handheld Computing

Sheikh Iqbal Ahamed, Marquette University, USA

Detecting Identifiable Areas in Mobile Environments

Jörg Roth, University of Hagen

Extending the Location API for J2METM to Support Friend Finder Services

David Parsons, Massey University

12:00 – 14:00 RESTAURANT MONTMUZARD**LUNCH BREAK**

14:00 – 15:30 AMPHI CLAUDE BERNARD**(DM-5) Data Mining**

Hasan M. Jamil, Wayne State University, USA
Rosa Meo, Università' di Torino, Italy
Gill Dobbie, University of Auckland, New Zealand

The Impact of Sample Reduction on PCA-based Feature Extraction for Supervised Learning

Mykola Pechenizkiy, University of Jyväskylä
Seppo Puuronen, University of Jyväskylä
Alexey Tsymbal, Trinity College Dublin

Selecting Parameters of SVM Using Meta-Learning and Kernel Matrix-based Meta-Features

Carlos Soares, NIAAD-LIACC
Pavel B. Brazdil, NIAAD-LIACC

A Methodology for Comparing Classifiers that Allow the Control of Bias

Anton Zamolotskikh, University of Dublin, Trinity College
Pádraig Cunningham, Trinity College Dublin
Sarah Jane Delany, Dublin Institute of Technology

Towards Value Disclosure Analysis in Modeling General Databases

Xintao Wu, UNC Charlotte
Songtao Guo, UNC Charlotte
Yingjiu Li, Singapore Management University

14:00 – 15:30 AMPHI ALBERT RECOURA**(GCR-1) Geometric Computing and Reasoning**

Dominique Michelucci, Université de Bourgogne, France

NFP-based Nesting Algorithm for Irregular Shapes

Liu Hu Yao, Shanghai Jiaotong University
He Yuan Jun, Shanghai Jiaotong University

An Adjustment Model in a Geometric Constraint Solving Problem

Reyes Pavón, University of Vigo
Fenando Diaz, University of Valladolid
M. Victoria Luzón, University of Vigo

A Framework for Geometric Constraint Satisfaction Problem

Julien Wintz, LSIT-ULP
Pascal Mathis, LSIT-ULP
Pascal Schreck, LSIT-ULP

Spatial Geometric Constraint Solving Based on k-connected Graph Decomposition

Gui-Fang Zhang, Institute of Systems Science
Xiao-Shan Gao, Institute of Systems Science

14:00 – 15:30 AMPHI MAURICE GEVREY

(DADS-3) Dependable and Adaptive Distributed Systems

Karl M. Göschka, Vienna University of Technology, Austria
Svein O. Hallsteinsen, SINTEF ICT, Norway
Rui Oliveira, Universidade do Minho, Portugal
Alexander Romanovsky, University of Newcastle upon Tyne, UK

DADS Keynote address on Dependable and Adaptive Distributed Systems

José-Luis Fernandez-Villacanas, European Commission

Quiescent Consensus in Mobile Ad-hoc Networks using Eventually Storage-Free Broadcasts

François Bonnet, Ecole Normale Supérieure
Paul Ezhilchelvan, University of Newcastle
Einar Vollset, University of Newcastle

Evaluating Unstructured Peer-to-Peer Lookup Overlays

Idit Keidar, Technion
Roie Melamed, Technion

An Adaptive Index Allocation Scheme for Reliable Data Retrieval and Provision in Peer-to-Peer Networks

Atsushi Ito, KDDI Corporation
Tomoyuki Ohta, Hiroshima City University
Kouichi Mitsukawa, Hiroshima City University
Yoshiaki Kakuda, Hiroshima City University

14:00 – 15:30 AMPHI PAUL PARIS

(MT-3) Model Transformation

Laurence Tratt, King's College London, UK

Describing Dynamic Software Architectures using an Extended UML Model

Mohamed Hadj Kacem, LAAS
Khalil Drira, LAAS
Mohamed Jmaiel, ENIS
Ahmed Hadj Kacem, FSEG

Simplifying Transformation of Software Architecture Constraints

Chouki Tibermacine, VALORIA Lab.
Régis Fleurquin, VALORIA Lab.
Salah Sadou, VALORIA Lab.

Software Performance Model-Driven Architecture

Vittorio Cortellessa, Università degli Studi dell'Aquila
Antinisa Di Marco, Università degli Studi dell'Aquila
Paola Inverardi, Università degli Studi dell'Aquila

Transformation of yEPC Business Process Models to YAWL

Jan Mendling, Vienna University of Economics
Michael Moser, Vienna University of Economics
Gustaf Neumann, Vienna University of Economics

14:00 – 15:30 AMPHI NICEPHORE NIEPCE

(HHC-2) Handheld Computing

Sheikh Iqbal Ahamed, Marquette University, USA

Field Study on Methods for Elicitation of Preferences using a Mobile Digital Assistant for a Dynamic Tour Guide

Klaus ten Hagen, University of Zittau Goerlitz
Marko Modsching, University of Zittau Goerlitz
Ronny Kramer, University of Zittau Goerlitz

Interactive Mobile 3D Graphics for On-the-go Visualization and Walkthroughs

Maria Andréia Formico Rodrigues, University of Fortaleza
Nabor C. Mendonça, Universidade de Fortaleza
Rafael G. Barbosa, Universidade de Fortaleza

Personalization and Visualization on Handheld Devices

George Karabatis, UMBC
Dongsong Zhang, UMBC
Zhiyuan Chen, UMBC
Boonlit Adipat, UMBC
Liwei Dai, UMBC
Zhenxue Zhang, UMBC
Yu Wang, UMBC

Ubicomp Assistant: An Omnipresent Customizable Service using MARKS (Middleware Adaptability for Resource Discovery, Knowledge Usability and Self-healing)

Sheikh I. Ahamed, Marquette University
Shameem Ahmed, Marquette University
Moushumi Sharmin, Marquette University

15:30 – 16:00 HALL OF SCIENCES MIRANDE

COFFEE BREAK

16:00 – 17:55 AMPHI CLAUDE BERNARD

(DSGC-2) Distributed Systems and Grid Computing

Robert van Engelen, Florida State University, USA
Madhu Govindaraju, Binghamton University, USA
Nectarios Koziris, National Technical University of Athens, Greece
Kleanthis Psarris, University of Texas at San Antonio, USA

Design and Implementation of a Real-Time Notification Service within the Context of Embedded ORB and the CAN Bus

Tarek Gasmi, Laboratoire SYSCOM, ENIT
Salem Hasnaoui, ENIT
Houria Rezik, ENIT

J2EE Server Scalability through EJB Replication

Daniel Hagimont, INPT/ENSEEIH

Sylvain Sicard, INRIA

Noel De Palma, INRIA Rhone-Alpes - SARDES project

Planning Spatial Workflows to Optimize Grid Performance

Luiz Meyer, Federal University of Rio de Janeiro

James Annis, Fermilab

Mike Wilde, Argonne National Laboratory

Ian Foster, Argonne National Laboratory

Marta Mattoso, Federal University of Rio de Janeiro

xSpace - A Tuple Space for XML & its Application in Orchestration of Web Services

Umesh Bellur, IIT Bombay

Siddharth Bondre, IIT Bombay

Implementation of a Dynamic Adjustment Mechanism with Efficient Replica Selection in Data Grid Environments

Chao-Tung Yang, Tunghai University

I-Hsien Yang, Tunghai University

Chun-Hsiang Chen, Tunghai University

Shih-Yu Wang, Tunghai University

16:00 – 17:55 AMPHI ALBERT RECOURA

(CEHV-1) Computer Ethics and Human Values

Keith W. Miller, Univ. of Illinois at Springfield, USA

Good/Fast/Cheap: Contexts, Relationships and Professional Responsibility During Software Development

Marty Wolf, Bemidji State University

Frances Grodzinsky, Sacred Heart University

Moral Responsibility and IT for Human Enhancement

Noëmi Manders-Huits, Delft University of Technology

A Dialogue on Responsibility, Moral Agency, and IT Systems

Deborah G. Johnson, Univ. of Virginia

Keith W. Miller, Univ. of Illinois at Springfield

GIS, SINKS, FILL, and Disappearing Wetlands: Unintended Consequences in Algorithmic Development and Use

David G. Jenkins, Univ. of Central Florida

Lisa A. McCauley, Univ. of Central Florida

16:00 – 17:55 AMPHI MAURICE GEVREY

(DTTA-2) Database Theory, Technology, and Applications

Ramzi A. Haraty, Lebanese American University, Lebanon

Apostolos N. Papadopoulos, Aristotle University, Greece

Junping Sun, Nova Southeastern University, USA

Grouping and Aggregation in the Concept-Oriented Data Model

Alexandr Savinov, Schloss Birlinghoven, Germany

Fingerprinting Relational Databases

Fei Guo, Tsinghua University, China

Jianmin, Wang, Tsinghua University, China

Deyi Li, China Institute of Electronic System Engineering, China

Design and Development of a Multiversion OLAP Application

Jarensri L. Mitranont, Mahidol University, Thailand

Somchart Fugkeaw, Mahidol University, Thailand

Query Reformulation for an XML-based Data Integration System

Bernadette Farias Loscio, Ceara State University, Brazil

Thaigo Costa, Federal University of Pernambuco, Brazil

Ana Carolina Salgado, Federal University of Pernambuco, Brazil

An Extendible Multidimensional Array System for MOLAP

Tatsuo Tsuji, Graduate School of Engineering, Japan

Akihiro Hara, Graduate School of Engineering, Japan

Ken Higuchi, Graduate School of Engineering, Japan

16:00 – 17:55 AMPHI PAUL PARIS

(MT-4) Model Transformation

Alfonso Pierantonio, Università degli Studi dell'Aquila, Italy

Evaluation of Rule-based Modularization in Model Transformation Languages Illustrated with ATL

Ivan Kurtev, INRIA - LINA, University of Nantes

Frédéric Jouault, INRIA-LINA, University of Nantes

Klaas van den Berg, University of Twente

Reconciling Diagrams After Executing Model Transformations

Ivan Porres, Åbo Akademi University

Marcus Alanen, Åbo Akademi University

Torbjörn Lundkvist, Åbo Akademi University

An Approach to Refactoring of Executable UML Models

Łukasz Dobrzański, Blekinge Institute of Technology

Ludwik Kuźniarz, Blekinge Institute of Technology

Model Refactorings through Rule-Based Inconsistency Resolution

Ragnhild Van Der Straeten, Vrije Universiteit Brussel

Maja D'Hondt, Université des Sciences et Technologies

Transforming OCL Constraints: a Context Change approach

Jordi Cabot, UOC

Ernest Teniente, UPC

16:00 – 17:55 AMPHI NICEPHORE NIEPCE

(ECT-1) Electronic Commerce Technologies

G. Daryl Nord, Oklahoma State University, USA

Mining and Prediction of Temporal Navigation Patterns For Personalized Services in E-Commerce

Vincent S. Tseng, National Cheng Kung University

Jeng-Chuan Chang, National Cheng Kung University

Kawuu W. Lin, National Cheng Kung University

Privacy-Preserving Demographic Filtering

José Fernandez, Ecole Polytechnique de Montreal

Esma Aïmeur, Université de Montreal

Gilles Brassard, Université de Montreal

Flavien Serge Mani Onana, Université de Montreal

**Analysis of the SET e-Commerce Protocol using a
True Concurrency Process Algebra**

M. Carmen Ruiz, Universidad de Castilla-La Mancha
Fernando Cuartero, Universidad Castilla-La Mancha
Juan Jose Pardo, Universidad Castilla-La Mancha
Diego Cazorla, Universidad Castilla-La Mancha

**(CLAT-1) Computer Law and Advanced
Technologies**

*Giovanni Sartor, University of Bologna, Italy
Alessandra VILLECCO, University of Bologna, Italy*

**A Multi-agent System for Efficiently Managing
Query Answering in an e-Government Scenario**

Pasquale De Meo, Università Mediterranea Reggio Calabria
Hind Fadil, Institut National Polytech. de Grenoble
Giovanni Quattrone, Università Mediterranea Reggio Calabria
Domenico Ursino, Università Mediterranea Reggio Calabria

**On the Relationship between Roles and Power:
Preliminary Report**

Maria Fasli, University of Essex

18:00 – 19:00 AMPHI CLAUDE BERNARD
SAC2006 WRAP-UP MEETING

END OF SAC 2006 EVENT!

**THANK YOU FOR YOUR PARTICIPATION
AND**

HOPE TO SEE YOU NEXT YEAR IN SEOUL, KOREA!
