ARES 2008

The Third International Conference on
Availability, Reliability and Security

CISIS 2008

The Second International Conference on
Complex, Intelligent and
Software Intensive Systems

Programme Guide

March 4th - March 7th, 2008
Technical University of Catalonia
Barcelona, Spain
http://www.ares-conference.eu
http://www.cisis-conference.eu

Table of Contents

MESSAGE FROM THE ARES-2008 ORGANIZERS

The Third International Conference on Availability, Reliability and Security ("ARES 2008 – The International Dependability Conference") will bring together researchers and practitioners in the area of dependability. ARES 2008 will highlight the various aspects of dependability - with special focus on the crucial linkage between availability, reliability and security.

ARES aims at a full and detailed discussion of the research issues of dependability as an integrative concept that covers amongst others availability, safety, confidentiality, integrity, maintainability and security in the different fields of applications.

ARES will emphasize the interplay between foundations and practical issues of dependability in emerging areas such as e-government, m-government, location-based applications, ubiquitous computing, autonomous computing, chances of grid computing etc.

ARES is devoted to the critical examination and research challenges of the various aspects of Dependable Computing and the definition of a future road map.

Proceedings of the ARES conference will be published by IEEE Computer Society Press.

This year's keynote speaker will be Prof. Ravi Sandhu (Executive Director, Chief Scientist and Founder, Institute for Cyber-Security Research (ICSR) and Lutcher Brown Endowed Chair in Cyber-Security), Prof. Günther Pernul (Department of Information Systems, University of Regensburg) and Dr. Vijay Atluri (Management Science and Information Systems Department, Research Director of the Center for Information Management, Integration and Connectivity (CIMIC), Rutgers University)

Many thanks to the following sponsors and partners for their contribution to ARES 2008:

ARES 2008 ORGANISATION COMMITTEE

Honorary Co-Chairs

Roland Wagner, University of Linz, Austria

General Co-Chairs

Guenther Pernul, University of Regensburg, Germany
Makoto Takizawa, Tokyo Denki University, Japan

Programme Co-Chairs

Gerald Quirchmayr, University of South Australia, Australia
Jill Slay, University of South Australia, Australia
Edgar Weippl, Vienna University of Technology / Secure Business Austria, Austria

Workshops Co-Chairs

Leonard Barolli, Fukuoka Institute of Technology (FIT), Japan
A Min Tjoa, Vienna University of Technology, Austria

Organizing Chair

Fatos Xhafa, Technical University of Catalonia, Spain

International Liaison Co-Chairs

Maria Wimmer, University of Koblenz-Landau, Germany
Charles Shoniregun, University of East London, United Kingdom

Publicity Chair

Vladimir Marik, Czech Technical University, Czech Republic

ARES 2008 PROGRAMME COMMITTEE MEMBERS

Jemal H. Abbawajy, Deakin University, Australia
Rafael Accorsi, University of Freiburg, Germany
Alessandro Acquisti, Carnegie Mellon University, USA
Andre Adelsbach, Telindus PSF S.A., Luxembourg
Vasilis Aggelis, PIRAEUS Bank (WINBANK), Greece
John Andrews, Loughborough University, UK
Davide Balzarotti, University of California, USA
Leonard Barolli, Fukuoka Institute of Technology (FIT), Japan
Lisa Bartlett, Loughborough University, UK
Massimo Bartoletti, Universita' di Pisa, Italy
Darcy G. Benoit, Acadia University Wolfville, Canada
Helmut Berger, E-Commerce Competence Center - EC3, Austria
Bharat Bhargava, Purdue University, USA
Christophe Blanchet, CNRS IBCP, France
Alexander Böhm, University of Mannheim, Germany
Stephane Bressan, National University of Singapore, Singapore
Luciano Burgazzi, ENEA, Italy
Kevin Butler, Pennsylvania State University, USA
Catharina Candolin, The Finnish Defence Forces, Finland
Jiannong Cao, Hong Kong Polytechnic University, Hongkong
Jordi Castellà-Roca, Rovira i Virgili University of Tarragona, Spain
David Chadwick, University of Kent, UK
Surendar Chandra, University of Notre Dame, USA
Guihai Chen, Nanjing University, China
Simon Christophe, Nancy University, France
Soon-Ae Chun, City University of New York, USA
Nathan Clarke, University of Plymouth, UK
Gao Cong, University of Edinburgh, UK
Ricardo Corin, INRIA-MSR & University of Twente, The Netherlands
George Davida, University of Wisconsinat Milwaukee, USA
Vincenzo De Florio, University of Antwerp, Belgium
Hervé Debar, France Télécom R&D, France
Beniamino Di Martino, Second University of Naples, Italy
Jochen Dinger, Universität Karlsruhe (TH), Germany
Lucia Draque Penso, University of Mannheim, Germany
Schahram Dustdar, Vienna University of Technology, Austria
Christian Engelmann, Oak Ridge National Laboratory, USA
Andreas Ekelhart, Secure Business Austria, Austria
Yung-Chin Fang, Dell Inc., USA
Hannes Federrath, University of Regensburg, Germany
Stefan Fenz, Secure Business Austria, Austria
Elena Ferrari, University of Insubria, Italy
Sergio Flesca, DEIS – University of Calabria, Italy
Vladimir Fomichov, K.E. Tsiolkovsky Russian State Technological Unive, Russia
Jordi Forné, Technincal Universtiy of Catalonia, Spain
Huirong Fu, Oakland University, USA
Steven Furnell, University of Plymouth, UK
Javier Garcia-Villalba, Complutense University of Madrid, Spain
Matthew Gebski, University of New South Wales, Australia
Swapna S. Gokhale, University of Connecticut, USA
Gernot Goluch, Secure Business Austria, Austria
Marcin Gorawski, Silesian University of Technology, Poland
Karl Göschka, Vienna University of Technology, Austria
Stephan Groß, Technische Universität Dresden, Germany
Daniel Grosu, Wayne State University, USA
Michael Grottke, Duke University, USA
Paul Grünbacher, University of Linz, Austria
Le Gruenwald, University of Oklahoma, USA
Qijun Gu, Texas State University, USA
Yong Guan, Iowa State University, USA
Abdelkader Hameurlain, Paul Sabatier University, France
Marit Hansen, Independent Centre for Privacy Protection, USA
Naohiro Hayashibara, Tokyo Denki University, Japan
Xubin (Ben) He, Tennessee Technological University, USA
Yanxiang He, Wuhan University, China
Rattikorn Hewett, Texas Tech University, USA

Chin-Tser Huang, University of South Carolina, USA
Jimmy Huang, York University, Canada
Stefan Jakoubi, Secure Business Austria, Austria
Zhen Jiang, West Chester University, USA
Hai Jin, Huazhong University of Science and Technology, China
Oliver Jorns, ftw. Forschungszentrum Telekommunikation Wien, Austria
Audun Josang, School of Software Engineering and Data Communication, Australia
Jan Jurjens, Munich University of Technology / Open University, Germany / UK
Holger Kenn, University of Bremen, Germany
Dogan Kesdogan, RWTH Aachen, Germany
Brian King, Indiana University Purdue University Indianapolis, USA
Alfred Kobsa, University of California, USA
Raphael Kunis, Chemnitz University of Technology, Germany
Helmut Kurth, Atsec Information Security, USA
Kwok-Yan Lam, Tsinghua University, China
Chokchai Box Leangsuksun, Louisiana Tech University, USA
Yih-Jiun Lee, Department of Information Management, CTU, Taiwan
Chin-Laung Lei, National Taiwan University, Taiwan
Philippe Leray, INSA (National Institute of Applied Sciences) of R, France
Jun Li, University of Oregon, USA
Ninghui Li, Purdue University, USA
Chae-Hoon Lim, Sejong University, Korea
Ching Lin, Macquarie University, Australia
Man Lin, St. Francis Xavier University, Canada
Alex Zhaoyu Liu, University of North Carolina at Charlotte, USA
Hua Liu, Xerox labs, USA
Javier Lopez Muñoz, University of Malaga, Spain
Sanglu Lu, Nanjing University, China
Jianhua Ma, Hosei University, Japan
Qiang Ma, NEC, Japan
Josef Makolm, Federal Ministry of Finance, Austria
Carsten Maple, University of Luton, UK
Keith Martin, University of London, UK
Fabio Martinelli, National Research Council - C.N.R, Italy
Santiago Melia, University of Alicante, Spain
Nasrullah Memon, Aalborg University Esbjerg, Denmark
Florian Michahelles, ETH Zurich, Switzerland
Geyong Min, University of Bradford, UK
George Mohay, Queensland University of Technology, Australia
Mattia Monga, Universita` di Milano, Italy
Marina Mongiello, Technical University of Bari, Italy
Yi, Mu University of Wollongong, Australia
Priya Narasimhan, Carnegie Mellon University, USA
Thomas Neubauer, Secure Business Austria, Austria
Tho Manh Nguyen, Vienna University of Technology, Austria
Jesper Buus Nielsen, University of Aarhus, Denmark
Thomas Nowey, University of Regensburg, Germany
Tomas Olovsson, Chalmers University of Technology, Sweden
Hong Ong, Oak Ridge National Laboratory, USA
Maria Papadaki, University of Plymouth, UK
Manish Parashar, Rutgers University, USA
Fernando Pedone, University of Lugano, Switzerland
Maria S. Perez, UPM, Spain
Günther Pernul, University of Regensburg, Germany
Rob Peters, University of Amsterdam, The Netherlands
Mario Piattini, University of Castilla-La Mancha, Spain
Makan Pourzandi, Ericsson Canada, Canada
Christopher Price, University of Wales Aberystwyth, UK
Christian W. Probst, Technical University of Denmark, Denmark
Jean-Jacques Quisquater, Universite catholique de Louvain, Belgium
Wenny Rahayu, La Trobe University, Australia
Raghav Rao, SUNY at Buffalo, USA
Indrajit Ray, Colorado State University, USA
Kui Ren, Illinois Institute of Technology, USA
Domenico Rosaci, University Mediterranea of Reggio Calabria, Italy
Bimal Roy, Indian Statistical Institute, India
Kouichi Sakurai, Kyushu University, Japan
Biplab K. Sarker, University of New Brunswick, Canada

Ingrid Schaumüller-Bichl, FH OÖ Campus Hagenberg, Austria
Stephen L. Scott, Oak Ridge National Laboratory, USA
Dharmaraja Selamuthu, Indian Institute of Technology Delhi, India
Tony Shan, Wachovia Bank, USA
Richard Sinnott, University of Glasgow, UK
Amund Skavhaug, Norwegian University of Science and Technology, Norway
Agusti Solanas, Rovira i Virgili University, Spain
Jon A. Solworth, University of Illinois at Chicago, USA
Neil Speirs, University of Newcastle upon Tyne, UK
Katarina Stanoevska-Slabeva, University St. Gallen, Switzerland
Ketil Stølen, SINTEF & University of Oslo, Norway
Aaron Striegel, University of Notre Dame, USA
Tsuyoshi Takagi, Future University - Hakodate, Japan
Makoto Takizawa, Tokyo Denki University, Japan
Oliver Theel, University of Oldenburg, German
Björn Thuresson, KTH Computer Science and Communication, Sweden
A Min Tjoa, Vienna University of Technology, Austria
Simon Tjoa, Secure Business Austria, Austria
Kishor Trivedi, Duke University, USA
Juan Trujillo, University of Alicante, Spain
Kalyan Vaidyanathan, Sun Microsystems, USA
Luca Vigano, ETH Zurich, Switzerland
Umberto Villano, Universita' del Sannio, Italy
Melanie Volkmar, Institute of IT-Security and Security Law, Germany
Michael Waidner, IBM Software Group, Switzerland
Carine Webber, Universidade de Caxias do Sul, Brazil
Edgar Weippl, Vienna University of Technology, Austria
Maria Wimmer, University of Koblenz-Landau, Germany
Qinghan Xiao, Defence R&D Canada, Canada
Liudong Xing, University of Massachusetts, USA
Cheng-Zhong Xu, Wayne State University, USA
Mariemma I. Yagüe, University of Malaga, Spain
Jeff, Yan Newcastle University, UK
Laurence T. Yang, St. Francis Xavier University, Canada
Alec Yasinsac, Florida State University, USA
George Yee, National Research Council, Canada
Sung-Ming Yen, National Central University, Taiwan
Xun Yi, Victoria University, Australia
Meng, Yu, Monmouth University, USA
William, Yurcik, University of Texas at Dallas/U.S. Army Research Laboratory, USA
Nicola Zannone, University of Trento, Italy
Jianhong Zhang, North China University of Technology, China
Liqiang Zhang, Indiana University South Bend, USA
Jianying Zhou, Institute for Infocomm Research, Singapore
Bo Zhu, Concordia University, Canada

ARES 2008 WORKSHOP PROGRAMME COMMITTEE MEMBERS

First International Workshop on Advances in Policy Enforcement (APE'08)

Workshop Organizers:
Rafael Accorsi, University of Freiburg, Germany
Sandro Etalle, University of Twente and Technical University of Eindhoven, The Netherlands
William H. Winsborough, University of Texas San Antonio, USA

Programme Committee Members:
Dieter Gollmann, Technical University of Hamburg-Harburg, Germany
Andy Gordon, MS Research Cambridge, UK
Erin Kenneally, University of California San Diego, USA
Volkmar Lotz, SAP Research Sofia Antipolis, France
Fabio Martinelli, CNR Pisa, Italy
Fabio Massacci, University of Trento, Italy
Daniel le Metayer, INRIA, France
John Mitchell, Stanford University, USA
Judie Mulholland, Florida State University, USA
Guenter Mueller, University of Freiburg, Germany
Alexander Pretschner, ETH Zurich, Switzerland
Simon Shiu, HP Bristol, UK

Luca Vigano, University of Verona, Italy
Daniel J. Weitzner, MIT, USA
Ting Yu, North Carolina State University, USA

Third International Workshop Dependability Aspects on Data Warehousing and Mining Applications (DAWAM 2008)

Workshop Organizers / Co-Chairs:
Bhavani Thuraisingham, Director of the Cyber Security Research Center, USA
Erik Jonsson, School of Engineering and Computer Science, University of Texas at Dallas, USA
Nguyen Manh Tho, Institute of Software Technique and Interactive System, Vienna University of Technology, Austria

Programme Committee Members:
Jemal Abawajy, Deakin University, Australia
Mikhail Atallah, Purdue University, USA
Davide Balzarotti, University of California, USA
Barbara Carminati, University of Insubria at Varese, Italy
Pawan Chowdhary, IBM T J Watson Research Center, USA
Alfredo Cuzzocrea, University of Calabria, Italy
Hervé Debar, France Télécom R&D, France
Josep Domingo-Ferrer, Rovira i Virgili University of Tarragona, Spain
Ulrich Flegel, SAP Research CEC Karlsruhe, Germany
Tyrone Grandison, IBM Almaden Research Center, USA
Jimmy Huang, York University, Canada
James Joshi, University of Pittsburgh, USA
Kwok-Yan Lam, Tsinghua University, China
Xue Li, The University of Queensland, Australia
Zongwei Luo, The University of Hong Kong, China
Nasrullah Memon, Aalborg University, Denmark
Taneli Mielikäinen, Nokia Research Center Palo Alto, USA
Anirban Mondal, University of Tokyo, Japan
Tho-Manh Nguyen, Vienna University of Technology, Austria
Torsten Priebe, Capgemini Consulting Österreich AG, Austria
Raghav Rao, SUNY at Buffalo, USA
Yucel Saygin, Sabanci University, Turkey
Josef Schiefer, Senactive IT-Dienstleistungs GmbH, Austria
Ben Soh, La Trobe University, Australia
Toshihiro Tabata, Okayama University, Japan
David Taniar, Monash University, Australia
Bhavani Thuraisingham, The University of Texas at Dallas, USA
Vassilios S. Verykios, University of Thessaly, Greece
Duminda Wijesekera, George Mason University, USA
Yang Yanjiang, Singapore Management University, Singapore
Justin Zhan, Carnegie Mellon University, USA
Sheng Zhong, State University of New York at Buffalo, USA

International Workshop on Frontiers in Availability, Reliability and Security (FARES)

Workshop Organizers / Chairs:
Roland Wagner, University of Linz, Austria
A Min Tjoa, Vienna University of Technology, Austria

Programme Committee Members:

Vladimir Marik, Czech Technical University, Czech Republic
Abdelkader Hameurlain, University of Toulouse, France

Workshop on Privacy and Security by means of Artificial Intelligence (PSAI)

Workshop Organizers / Chairs:
Agusti Solanas, Rovira i Virgili University (URV) of Tarragona, Catalonia
Antoni Martínez-Ballesté, Junior Lecturer at Rovira i Virgili University of Tarragona (URV) , Catalonia

Local Committee Members:
Jordi Castellà, Rovira i Virgili University, Spain
Josep Domingo-Ferrer, Rovira i Virgili University, Spain
Jordi Forné, Universitat Politècnica de Catalunya, Spain
Jesús A. Manjón, Rovira i Virgili University, Spain

Antoni Moreno, Rovira i Virgili University, Spain
Gloria Pujol Crespo, Rovira i Virgili University, Spain
Domenec Puig, Rovira i Virgili University, Spain
David Riaño, Rovira i Virgili Universit, Spain
Francesc Sebé, Rovira i Virgili University, Spain
Miquel Soriano, Universitat Politecnica de Catalunya, Spain
Aïda Valls, Rovira i Virgili University, Spain

Programme Committee Members:
Gildas Avoine, Université Catholique de Louvain, Belgium
Pascal Bouvry, University of Luxemburg, Luxembourg
Valentina Ciriani, Universita degli Studi di Milano, Italy
Dipankar Dasgupta, Center for Information Assurance, USA
Juan M. Estévez, Universidad Carlos III de Madrid, Spain
Josep Lluís Ferrer, Universitat de les Illes Balears, Spain
Ana Isabel González-Tablas, Universidad Carlos III de Madrid, Spain
Julio C. Hernández, Universidad Carlos III de Madrid, Spain
Jordi Herrera-Joancomartí, Universitat Oberta de Catalunya, Spain
Hiroaki Kikuchi, Tokai University, Japan
Victor Korobitsin, Omsk State University, Russia
Mohamed Layouni, McGill University, Canada
Javier López, Universitat de Málaga, Spain
Sadaaki Miyamoto, University of Tsukuba, Japan
Vicenç Torra, CSIC, Spain
Justin Zhan, Carnegie Mellon University, USA
Zonghua Zhang, INRIA Futurs, France

The International Workshop on Secure Software Engineering (SecSE-2008)

Workshop Organizers:
Torbjørn Skramstad, Norwegian University of Science and Technology (NTNU)
Lillian Røstad, Norwegian University of Science and Technology (NTNU)
Martin Gilje Jaatun, SINTEF ICT, Norway

Programme Committee Members:
Rubén Alonso, ESI, Spain
Ana Cavalli, GET/INT, France
Ivan Flechais, University of Oxford, UK
Per Håkon Meland, SINTEF ICT, Norway
Leon Moonen, Delft University of Technology, Netherlands
Khalid Mughal, University of Bergen, Norway
Holger Peine, Fraunhofer IESE, Germany
Samuel Redwine, James Madison University, USA
Chunming Rong, University of Stavanger, Norway
Lillian Røstad, NTNU, Norway
Christoph Schuba, Sun Microsystems Inc., USA
Nahid Shahmehri, Linköping University, Sweden
Torbjørn Skramstad, NTNU, Norway
Bart De Win, KU Leuven, Belgium
Stephen Wolthusen, Royal Holloway University of London, UK

Symposium on Requirements Engineering for Information Security (SREIS 2008)

Workshop Organizers / Chairs:
Annie Anton, North Carolina State University, USA
Fabio Massacci , University of Trento, Italy
Mattia Monga, University of Milan, Italy
Nicola Zannone, University of Toronto, Canada

Second International Workshop on Advances in Information Security (WAIS-2008)

Workshop Organizers / Chairs:
Leonard Barolli, Fukuoka Institute of Technology, Japan
Arjan Durresi, Indiana university Purdue University Indianapolis, USA
Hiroaki Kikuchi, Tokai university, Japan
Makoto Takizawa, Tokyo Denki University, Japan
Raj Jain, Washington University in St. Louis, USA

Programme Committee Members:
Koji Chida, NTT, Japan
Qijun Gu, Texas State University - San Marcos, USA
Tesuya Izu, Fujitsu Laboratories, Japan
Youki Kadobayashi, Nara Institute of Science and Technology, Japan
Akio Koyama, Yamagata University, Japan
Michiharu Kudo, IBM Japan, Japan
Sanjay Kumar Madria, University of Missouri-Rolla, USA
Jelena Misic, University of Manitoba, Canada
Vojislav Misic, University of Manitoba, Canada
Masakatsu Morii, Kobe University, Japan
Masakatsu Nishigaki, Shizuoka University, Japan
Vamsi Paruchuri, University of Central Arkansas, USA
Hiroshi Shigeno, Keio University, Japan
Yuji Suga, Canon, Japan
Keisuke Takemori, KDDI Co., Japan
Christian Tchepnda, France Telecom R&D, France
Ryuya Uda, Tokyo University of Technology, Japan
Xukai Zou, Indiana University Purdue University Indianapolis, USA
Wenye Wang, North Carolina State University, USA
Hiroshi Yoshiura, University of Electro-Communications, Japan

The International Workshop on Privacy and Assurance (WPA-2008)

Workshop Organizer / Chair:
Thomas Mück, Austrian Social Insurance Authority for Business (SVA)

The International Workshop on Digital Forensics (WSDF'08)

Workshop Organizer / Chair:
Jill Slay, University of South Australia

ARES 2008 & ARES WORKSHOP PROGRAMME

Tuesday, March 4, 2008

9:00 – 10:30   Single Session

    Session A1: # Welcome and Opening Ceremony
    Keynote Günther Pernul: Infrastructure Support for Authorization, Access Control and Privilege Management

10:30 – 11:00   Coffee Break

11:00 – 12:30   Parallel Sessions

    Session B2: # Full: Applications
    Chair: Markus Aleksy

1. Securing Telehealth Applications in a Web-Based e-Health Portal
   Qian Liu, Shuo Lu, Yuan Hong , Lingyu Wang, Rachida Dssouli
2. Multi-Level Reputation-Based Greylisting
   Wilfried Gansterer, Andreas Janecek, Ashwin Kumar
3. Hardening XDS-based architectures
   Kim Wuyts, Riccardo Scandariato, Geert Claeys, Wouter Joosen

    Session C2: # Short: Applications
    Chair: Edgar Weippl

1. CERTILOC: Implementation of a spatial-temporal certification service compatible with several localization technologies
   José María de Fuentes García-Romero de Tejada, Ana Isabel González-Tablas Ferreres, Arturo Ribagorda Garnacho
2. Extending Mixed Serialisation Graphs to Replicated Environments
   Josep M. Bernabé-Gisbert, Francesc D. Muñoz-Escoí
3. Towards Secure E-Commerce Based on Virtualization and Attestation Techniques *Frederic Stumpf, Claudia Eckert, Shane Balfe*
4. Fuzzy Belief-Based Supervision
   Alexandre Vorobiev, Rudolph Seviora

    Session D2: # Full: Database
    Chair: Joaquim Gabarro

1. Towards Comprehensive Requirement Analysis for Data Warehouses: Considering Security Requirements
   Emilio Soler, Veronika Stefanov, Jose-Norberto Mazon, Juan Trujillo, Eduardo Fernandez-Medina, Mario Piattini
2. A New Scheme for Distributed Density Estimation Based Privacy-Preserving Clustering
   Chunhua Su, Jianying Zhou, Feng Bao, Tsuyoshi Takagi, Kouichi Sakurai
3. A Database Replication Protocol Where Multicast Writesets Are Always Committed
   José Ramón Juárez-Rodríguez, Enrique Armendáriz-Iñigo, José Ramón González de Mendívil, Francesc Daniel Muñoz-Escoí

    Session E2: # FARES: Misc
    Chair: Andreas Ekelhart

1. Anti-DDoS Virtualized Operating System
   Sanjam Garg, Huzur Saran
2. A Case for High Availability in a Virtualized Environment(HAVEN)
   Erin Farr, Richard Harper, Lisa Spainhower, Jimi Xenidis

    Session F2: # WPA
    Chair: Christian Schläger

1. Clustering Oriented Architectures in Medical Sensor Environments
   Eleni Klaoudatou, Elisavet Konstantinou, Georgios Kambourakis, Stefanos Gritzalis
2. An Initial Model and a Discussion of Access Control in Patient Controlled Health Records
   Lillian Røstad
3. Secure Team-Based EPR Access Acquisition in Wireless Networks
   Sigurd Eskeland, Vladimir Oleshchuk

Session G2: # PSAI

1. A critique of k-anonymity and some of its enhancements
   Josep Domingo-Ferrer, Vicenc Torra
2. Representation and reasoning on ORBAC:Description Logic with Defaults and Exceptions Approach
   Boustia Narhimene, Mokhtari Aicha
3. Bayesian Additive Regression Trees-Based Spam Detection for Enhanced Email Privacy
   Saeed Abu-Nimeh, Dario Nappa, Xinlei Wang, Suku Nair

12:30 – 13:30   Lunch Break

13:30 – 15:00   Parallel Sessions

Session B3: # Full: Misc
Chair: Jill Slay

1. Finding Evidence of Antedating in Digital Investigations
   Svein Yngvar Willassen
2. Economic and Security Aspects of the Appliance of a Threshold Scheme in e-Health
   Bernhard Riedl, Veronika Grascher, Mathias Kolb, Thomas Neubauer

Session C3: # Full: IDS & Models
Chair: Benjamin Turnbull

1. An Intrusion-Tolerant Mechanism for Intrusion Detection Systems
   Liwei Kuang, Mohammad Zulkernine
2. Fuzzy Private Matching (Extended Abstract)
   Lukasz Chmielewski, Jaap-Henk Hoepman
3. An End-to-End Security Solution for SCTP
   Stefan Lindskog, Anna Brunstrom

Session D3: # Full: Mobile
Chair: José M. Fernandez

1. Matching Policies with Security Claims of Mobile Applications
   Nataliia Bielova, Marco Dalla Torre, Nicola Dragoni, Ida Siahaan
2. PSecGCM: Process for the development of Secure Grid Computing based Systems with Mobile devices
   David G. Rosado, Eduardo Fernandez-Medina, Javier López, Mario Piattini
3. WATCHMAN: An Overlay Distributed AAA Architecture for Mobile Ad hoc Networks
   Amir Khakpour, Maryline Laurent-Maknavicius, Hakima Chaouchi

Session E3: # FARES: Access Control & Algorithms
Chair: Stefan Fenz

1. A Federated Physical and Logical Access Control Enforcement Model
   Stephane Onno
2. Fostering the Uptake of Secure Multiparty Computation in E-Commerce
   Octavian Catrina, Florian Kerschbaum
3. A Survey on Trust and Reputation Schemes in Ad Hoc Networks
   Marianne Azer, Sherif El-Kassas, Magdy El-Soudani

Session F3: # WPA
Chair: Nguyen Manh Tho

1. VEA-bility Security Metric: A Network Security Analysis Tool
   Melanie Tupper, A. Nur Zincir-Heywood
2. Towards an Architecture for Balancing Privacy and Traceability in Ubiquitous Computing Environments
   Stefan G. Weber, Andreas Heinemann, Max Mühlhäuser
3. Privacy-Preserving Recommendation Systems for Consumer Healthcare Services
   Stefan Katzenbeisser, Milan Petkovic

Session G3: # PSAI

1. Hierarchical Trust Architecture in a Mobile Ad-Hoc Network Using Ant Algorithms
   Cristina Satizábal , Jordi Forné, Rafael Martinez-Peláez
2. Performance of a strategy based packets forwarding in Ad Hoc networks
   Marcin Seredynski, Pascal Bouvry, Mieczyslaw Klopotek
3. AntTrust: A Novel Ant Routing Protocol for Wireless Ad-hoc Network Based on Trust Between Nodes
   Carlos Aguilar Melchor, Boussad Ait Salem, Philippe Gaborit, Karim Tamine

15:00 – 15:30   Coffee Break

15:30 – 17:30   Parallel Sessions

Session B4: # Full: Models
Chair: Gerald Quirchmayr

1. Soundness Conditions for Message Encoding Abstractions in Formal Security Protocol Models
    Alfredo Pironti, Riccardo Sisto
2. Towards Formal Specification of Abstract Security Properties
    Antonio Maña, Gimena Pujol
3. A Behavioral Model of Ideologically-motivated "Snowball' Attacks
    Natalia Stakhanova, Oleg Stakhanov, Ali Ghorbani

Session C4: # Short: Application
Chair: Stefan Lindskog

1. Ensuring Progress in Amnesiac Replicated Systems
    Rubén de Juan-Marín, Luis Irún-Briz, Francesc D. Muñoz-Escoí
2. Enhancing Face Recognition with Location Information
    R.J. Hulsebosch, P.W.G. Ebben
3. A Lazy Monitoring Approach for Heartbeat-Style Failure Detectors
    Benjamin Satzger, Andreas Pietzowski, Wolfgang Trumler, Theo Ungerer
4. Intrusion Detection for Wormhole Attacks in Ad hoc Networks a Survey and a Proposed Decentralized Scheme
    Marianne Azer, Sherif El-Kassas, Magdy El-Soudani

Session D4: # Short: Services & Trust
Chair: Martin Gilje Jaatun

1. A Pattern-Driven Security Process for SOA Applications
    Nelly A. Delessy, Eduardo B. Fernandez
2. Toward a Dependable Architecture for Highly Available Internet Services
    Ayari Narjess, Pablo Neira, Laurent Lefevre, Barbaron Denis
3. Assessing the Reliability and Cost of Web and Grid Orchestrations
    Alan Stewart, Maurice Clint, Terry Harmer, Peter Kilpatrick, Ron Perrott, Joaquim Gabarro
4. Application-oriented trust in distributed computing
    Riccardo Scandariato, Yoram Ofek, Paolo Falcarin, Mario Baldi
5. BlueTrust in a real world
    Bradley Markides, Coetzee Marijke

Session E4: # FARES: Cryptography
Chair: Edgar Weippl

1. New Self Certified Proxy Digital Signature Scheme based on Elliptic Curve Cryptosystem
    Xiao Youan
2. Privacy-preserving Protocols for Finding the Convex Hulls
    Qi Wang, Yonglong Luo, Liusheng Huang
3. A Secure RFID Protocol based on Insubvertible Encryption using Guardian Proxy
    Kyosuke Osaka, Shuang Chang, Tsuyoshi Takagi, Kenichi Yamazaki, Osamu Takahashi
4. Cryptographic properties of second-order memory elementary cellular automata
    Ascension Hernandez Encinas, Angel Martin del Rey, Gerardo Rodriguez Sanchez, Araceli Queiruga Dios

Session F4: # FARES: Risk Management
Chair: Gernot Goluch

1. Intensive Programme on Information and Communication Security
    Christian Schläger, Ludwig Fuchs, Günther Pernul
2. Applications for IT-Risk Management – Requirements and Practical Evaluation
    Heinz *Lothar Grob, Gereon H. M. Strauch, Christian Buddendick*
3. Security Analysis of Role-based Separation of Duty with Workflows
    Rattikorn Hewett, Phongphun Kijsanayothin, Aashay Thipse

Session G4: # PSAI

1. A Bayesian Approach for on-Line Max Auditing
   Gerardo Canfora, Bice Cavallo

Wednesday, March 5, 2008

9:00 – 10:30   Parallel Sessions

Session B5: # Full: RBAC & Recommender
Chair: A Min Tjoa

1. Hierarchical Domains for Decentralized Administration of Spatially-aware RBAC Systems
   Maria Luisa Damiani, Claudio Silvestri, Elisa Bertino
2. Experimental Demonstration of a Hybrid Privacy-Preserving Recommender System
   Esma Aimeur, Gilles Brassard, Jose M. Fernandez, Flavien Serge Mani Onana, Zbigniew Rakowski
3. Fast Qualitative Reasoning about Actions for Computing Anticipatory Systems
   Natsumi Kitajima, Yuichi Goto, Jingde Cheng

Session C5: # Short: Cryptography
Chair: Gerald Quirchmayr

1. An Identity-Based Group Key Agreement Protocol from Pairing
   Wang Hongji, Yao Gang, Zhou Changle
2. An Authenticated Three-Round Identity-Based Group Key Agreement Protocol
   Wang Hongji, Yao Gang, Zhou Changle
3. High Capacity Steganographic Method Based Upon JPEG
   Adel Almohammad, Robert Hierons, Gheorghita Ghinea
4. Cluster-based Group Key Agreement for Wireless Ad hoc Networks
   Elisavet Konstantinou

Session D5: # Short: Privacy & Safety
Chair: Ludwig Fuchs

1. Privacy Protected ELF with Private Computing on Public Platforms
   Thomas Morris, V.S.S. Nair
2. haplog: A Hash-Only and Privacy-Preserved Secure Logging Mechanism
   Chih-Yin Lin
3. An Improved Zonal Safety Analysis Method and Its Application on Aircraft CRJ200
   Li Xiao lei, Tian Jin, Zhao Ting di

Session E5: # FARES: Access Control & Algorithms
Chair: Christian Schläger

1. Efficient Certificate Path Validation and Its Application in Mobile Payment Protocols
   Rafael Martínez-Peláez, Cristina Satizábal, Francisco Rico-Novella, Jordi Forné
2. Avoiding Policy-based Deadlocks in Business Processes
   Mathias Kohler, Andreas Schaad
3. A Secure High-Speed Identification Scheme for RFID Using Bloom Filters
   Yasunobu Nohara, Sozo Inoue, Hiroto Yasuura

Session F5: # SecSE2008
Chair: Martin Gilje Jaatun / Lillian Røstad

1. Security requirement engineering at a Telecom provider
   Albin Zuccato, Viktor Endersz and Nils Daniels
2. Identifying Security Aspects in Early Development Stages
   Takao Okubo and Hidehiko Tanaka
3. Using Security Patterns to Combine Security Metrics
   Thomas Heyman, Riccardo Scandariato, Christophe Huygens and Wouter Joosen

Session G5: # PSAI

1. Cluster-specific Information Loss Measures in Data Privacy: A Review
   Vicenc Torra, Susana Ladra
2. Intrusion Detection with Data Correlation Relation Graph
   Amin Hassanzadeh, Babak Sadeghian
3. Using Non-adaptive Group Testing to Construct Spy Agent Routes
   Georgios Kalogridis, Chris Mitchell

Session H5: # WAIS

1. Insider-secure Signcryption KEM/Tag-KEM Schemes without Random Oracles
   Chik How Tan
2. Internet Observation with ISDAS: How long does a worm perform scanning?
   Tomohiro Kobori, Hiroaki Kikuchi and Masato Terada
3. Electronic Voting Scheme to Maintain Anonymity in Small-scale Election by Hiding the Number of Votes
   Tsukasa Endo, Isao Echizen and Hiroshi Yoshiura

10:30 – 11:00   Coffee Break

11:00 – 12:30   Parallel Sessions

Session B6: # Full: Risk Management
Chair: Stefan Fenz

1. Enhancing Business Impact Analysis and Risk Assessment applying a Risk-Aware Business Process Modeling and Simulation Methodology
   Simon Tjoa, Stefan Jakoubi, Gerald Quirchmayr
2. Defining Secure Business Processes with Respect to Multiple Objectives
   Thomas Neubauer, Johannes Heurix
3. Analysis and Component-based Realization of Security Requirements
   Denis Hatebur, Maritta Heisel, Holger Schmidt

Session C6: # Short: Cryptography & Health
Chair: Benjamin Aziz

1. A Statistical Algorithm for Linguistic Steganography Detection Based on Distribution of Words
   Zhi-li Chen, Liu-sheng Huang, Zhen-shan Yu, Ling-jun Li, Wei Yang
2. RTQG: Real-Time Quorum-based Gossip Protocol in Unreliable Networks
   Bo Zhang, Kai Han, Binoy Ravindran, E.D. Jensen
3. A Secure and Scalable Infrastructure for Inter-Organizational Data Exchange and eGovernment Applications
   Jan Willemson, Arne Ansper

Session D6: # Full: Trust, Security Economics
Chair: Günther Pernul

1. Navigating in Webs of Trust: Finding Short Trust Chains in Unstructured Networks Without Global Knowledge
   Jens-Uwe Bußer, Steffen Fries, Martin Otto, Peter Hartmann
2. Trust Modelling in E-Commerce through Fuzzy Cognitive Maps
   Christian Schläger, Günther Pernul
3. Boosting Markov Reward Models for Probabilistic Security Evaluation by Characterizing Behaviors of Attacker and Defender
   Zonghua Zhang, Farid Nait-Abdesselam, Pin-Han Ho

Session E6: # FARES: Database & Models
Chair: Gernot Goluch

1. Detecting Suspicious Relational Database Queries
   Stefan Böttcher, Rita Hartel, Matthias Kirschner
2. Assessing the Value of Enterprise Identity Management (EIdM) – Towards a Generic Evaluation Approach
   Denis Royer
3. An Ontological Approach to Secure MANET Management
   Mark Orwat, Timothy Levin, Cynthia Irvine

Session F6: # SecSE2008
Chair: Martin Gilje Jaatun / Lillian Røstad

1. Secure Software Design in Practice
   Per Håkon Meland and Jostein Jensen
2. Covering Your Assets in Software Engineering
   Martin Gilje Jaatun and Inger Anne Tøndel
3. A Non-Intrusive Approach to Enhance Legacy Embedded Control Systems with Cyber Protection Features
   Shangping Ren and Kevin Kwiat

Session G6: # PSAI

1. Detection of Malcodes by Packet Classification
   Irfan Ahmed, Kyung-suk Lhee
2. Intelligent Video Surveillance Networks: Data Protection Challenges
   Fanny Coudert, Jos Dumortier
3. A Post-processing Method to Lessen k-Anonymity Dissimilarities
   Agusti Solanas, Gloria Pujol, Antoni Matinez-Balleste, Josep Maria Mateo-Sanz
4. Improving Techniques for Proving Undecidability of Checking Cryptographic Protocols
   Zhiyao Liang, Rakesh Verma

Session H6: # WAIS

1. Enocoro-80: A Hardware Oriented Stream Cipher
   Dai Watanabe, Kota Ideguchi, Jun Kitahara, Kenichiro Muto, Hiroki Furuichi and Toshinobu Kaneko
2. Cryptanalysis and Improvement of an 'improved remote authentication scheme with smart card'
   Marko Hölbl and Tatjana Welzer
3. Effective Monitoring of a Survivable Distributed Networked Information System
   Paul Rubel, Michael Atighetchi, Partha Pal, Martin Fong and Richard O'Brien

12:30 – 13:30   Lunch Break

13:30 – 15:00   Parallel Sessions

Session B7: # Full: Networks
Chair: Edgar Weippl

1. A Framework for Detecting Anomalies in VoIP networks
   Yacine BOUZIDA, Christophe Mangin
2. Rapid Detection of Constant-Packet-Rate Flows
   Kuan-Ta Chen, Jing-Kai Lou
3. Performance Analysis of Anonymous Communication Channels Provided by Tor
   Andriy Panchenko, Lexi Pimenidis, Johannes Renner

Session C7: # Short: Models & Networks
Chair: Gerald Quirchmayr

1. Run-time Information Flow Monitoring based on Dynamic Dependence Graphs
   Salvador Cavadini, Diego Alejandro Cheda
2. Automated Process Classification Framework using SELinux Security Context
   Pravin Shinde, Priyanka Sharma, Srinivas Guntupalli
3. Using Composition Policies to Manage Authentication and Authorization Patterns and Services
   Judith E. Y. Rossebø, Rolv Bræk
4. Providing Fault Tolerance in Wireless Backhaul Network Design with Path Restoration
   Pakorn Leesuthipornchai, Naruemon Wattanapongsakorn, Chalermpol Charnsripinyo

Session D7: # Short: Networks
Chair: Octavian Catrina

1. A Model for Specification and Validation of Security Policies in Communication Networks: the Firewall case
   Ryma Abbassi, Sihem Guemara El Fatmi
2. SPIT Detection and Prevention Method in VoIP Environment
   HE Guang-Yu
3. A New Approach to Analysis of Interval Availability
   Ezzat Kirmani, Cynthia Hood
4. SFMD: A secure data forwarding and malicious routers detecting protocol
   Xianghe Yang, Huaping Hu, Xin Chen

Session E7: # FARES: Models
Chair: Andreas Ekelhart

1. Reliability Analysis using Graphical Duration Models
   Roland Donat, Laurent Bouillaut, Patrice Aknin, Philippe Leray, Didier Levy
2. From Omega to <>P in the Crash-Recovery Failure Model with Unknown Membership
   Mikel Larrea, Cristian Martin
3. Policy-based Group Organizational Structure Management using an Ontological Approach
   Mario Anzures-García, Luz A. Sánchez-Gálvez

Session F7: # SecSE2008
Chair: Martin Gilje Jaatun / Lillian Røstad

1. Towards Incorporating Discrete-Event Systems in Secure Software Development
   Sarah Whittaker, Mohammad Zulkernine and Karen Rudie
2. How to Open a File and Not Get Hacked
   James Kupsch and Barton Miller
3. Rules of Thumb for Developing Secure Software: Analyzing and consolidating two proposed sets of rules
   Holger Peine

Session H7: # WAIS

1. Design of an FDB based Intra-domain Packet Traceback System
   Hiroaki Hazeyama, Yoshihide Matsumoto and Youki Kadobayashi
2. An Independent Evaluation of Web Timing Attack and its Countermeasure
   Yoshitaka Nagami, Daisuke Miyamoto, Hiroaki Hazeyama and Youki Kadobayashi
3. Secure Spatial Authentication for Mobile Stations IN Hybrid 3G-WLAN Serving Networks
   Arjan Durresi, Mimoza Durresi and Leonard Barolli

15:00 – 15:30   Coffee Break

15:30 – 17:30   Parallel Sessions

Session B8: # Full: Networks
Chair: Gernot Goluch

1. Privacy/Analysis Tradeoffs in Sharing Anonymized Packet Traces: Single-Field Case
   William Yurcik, Clay Woolam, Greg Hellings, Latifur Khan, Bhavani Thuraisingham
2. A Distributed Defense Framework for Flooding-Based DDoS Attacks
   Yonghua You, Mohammad Zulkernine, Anwar Haque
3. Pure MPLS technology
   Liwen He
4. Symmetric Active/Active Replication for Dependent Services
   Christian Engelmann, Stephen L. Scott, Chokchai Leangsuksun, Xubin He

Session C8: # Short: IDS
Chair: Wilfried Gansterer

1. Histogram Matrix: Log File Visualization for Anomaly Detection
   Adrian Frei, Marc Rennhard
2. Context-based profiling for anomaly intrusion detection with diagnosis
   Benferhat Salem, Tabia Karim
3. A Revised Taxonomy of Data Collection Mechanisms with a Focus on Intrusion Detection
   Ulf Larson, Erland Jonsson, Stefan Lindskog
4. IDRS: Combining File-level Intrusion Detection with Block-level Data Recovery based on iSCSI
   Youhui Zhang, Hongyi Wang

Session D8: # Full: Software
Chair: A Min Tjoa

1. Statically Checking Confidentiality of Shared-Memory Programmes with Dynamic Labels
   Marcus Voelp
2. A Cause-Based Approach to Preventing Software Vulnerabilities
   David Byers, Nahid Shahmehri
3. Integrating a Security Plug-in with the OpenUP/Basic Development Process
   Shanai Ardi, Nahid Shahmehri
4. A Novel Testbed for Detection of Malicious Software Functionality
   Jostein Jensen
5. Type and Effect Annotations for Safe Memory Access in C
   Syrine Tlili, Mourad Debbabi

Session E8: # FARES: Models
Chair: Stefan Fenz

1. A Systematic Review and Comparison of Security Ontologies
   Carlos Blanco, Joaquín Lasheras, Rafael Valencia-García, Eduardo Fernández-Medina, Ambrosio Toval, Mario Piattini
2. Context Ontology for Secure Interoperability
   Céline Coma, Nora Cuppens-Boulahia, Frédéric Cuppens, Ana Rosa Cavalli

Session F8: # FARES: Passwords & Services
Chair: Ludwig Fuchs

1. On the security of VSH in password schemes
   Kimmo Halunen, Pauli Rikula, Juha Röning
2. Sustaining Web Services High-Availability Using Communities
   Zakaria Maamar, Quan Z. Sheng, Djamal Benslimane
3. Distributed Information Retrieval Service Based on Contents Information for Ubiquitous Services
   Takeshi Tsuchiya, Marc Lihan, Hirokazu Yoshinaga, Keiichi Koyanagi

Session H8: # WAIS

1. Privacy-Preserving Distributed Set Intersection
   Qingsong Ye, Huaxiong Wang and Christophe Tartary
2. Examination of Forwarding Obstruction Attacks in Structured Overlay Networks
   Yo Mashimo, Shintaro Ueda, Yasutaka Shinzaki and Hiroshi Shigeno
3. A New Algorithm for Hybrid Multiplier over Finite Field
   A. Zadeh

Thursday, March 6, 2008

9:00 – 10:30   Single Session

Session A9: # Keynote Vijay Atluri: Security and Privacy Challenges in Location Based Service Environments

10:30 – 11:00   Coffee Break

11:00 – 12:30

Session A10: # Keynote Ravi Sandhu: ASCAA Principles for Next-Generation Role-Based Access Control

12:30 – 13:30   Lunch Break

13:30 – 15:00   Parallel Sessions

Session B11: # Full: Misc
Chair: Edgar Weippl

1. Anomaly Based Character Distribution Modeling to Detect SQL Injection Attacks
   Mehdi Kiani, Andrew Clark, George Mohay
2. On the Possibility of Small, Service-Free Disk Based Storage Systems
   Jehan-François Pâris, Thomas Schwarz, S.J.
3. Efficient High Availability Commit Processing
   Heine Kolltveit, Svein-Olaf Hvasshovd
4. Adaptability of a GP Based IDS on Wireless Networks
   Adetokunbo Makanju, Nur Zincir-Heywood, Evangelos Milios

Session D11: # Short: Networks
Chair: Andreas Ekelhart

1. Securing Wireless Sensor Networks
   Xun Yi, Mike Faulkner, Eiji Okamoto
2. A Trusted Routing Protocol for Wireless Mobile Ad hoc Networks
   Huang Chuanhe, Cheng Yong, Shi Wenming, Zhou Hao

Session E11: # FARES: Software and Trust
Chair: Coetzee Marijke

1. A Lightweight Security Analyzer inside GCC
   Davide Pozza, Riccardo Sisto
2. Making Multi-dimensional Trust Decisions on Inter-enterprise Collaborations
   Sini Ruohomaa, Lea Kutvonen
3. A Preliminary Investigation of Skype Traffic Classification Using a Minimalist Feature Set
   Duffy Angevine, A. Nur Zincir-Heywood

Session F11: # APE
Chair: Rafael Accorsi

1. Partial Disclosure of Searchable Encrypted Data with Support for Boolean Queries
   Yasuhiro Ohtaki
2. Secure and Privacy-Friendly Logging for eGovernment Services
   Karel Wouters, Koen Simoens, Danny Lathouwers and Bart Preneel
3. The REM framework for security evaluation
   Flora Amato, Valentina Casola, Antonino Mazzeo and Valeria Vittorini

Session H11: # SREIS

1. Security Requirements Variability for Software Product Lines
   Daniel Mellado, Eduardo Fernandez-Medina and Mario Piattini
2. Transforming Security Requirements into Architecture
   Koen Yskout, Riccardo Scandariato, Bart De Win and Wouter Joosen
3. Goal-Oriented, B-Based Formal Derivation of Security Design Specifications from Security Requirements
   Riham Hassan, Shawn Bohner, Sherif El-Kassas and Mohamed Eltoweissy

15:00 – 15:30   Coffee Break

15:30 – 17:30   Parallel Sessions

Session A12: # Best Paper Award & Best Paper Presentation

Session E12: # DAWAM
Chair: Nguyen Manh Tho

1. Adaptive Data Integrity through Dynamically Redundant Data Structures
   Vincenzo De Florio and Chris Blondia
2. ISEDS: An Information Security Engineering Database System
   Daisuke Horie, Shoichi Morimoto, Yuichi Goto and Jingde Cheng
3. Privacy Aspects of eHealth
   Daniel Slamanig and Christian Stingl
4. Data Integration Under Access Control Constraints
   Sellami Mokhtar, Hacid Mohand Said and Benbernou Salima

Session F12: # APE
Chair: Rafael Accorsi

1. Static Validation of Licence Conformance Policies
   René Rydhof Hansen, Flemming Nielson, Hanne Riis Nielson and Christian W. Probst
2. Towards Practical Security Monitors of UML Policies for Mobile Applications
   Fabio Massacci and Katsiaryna Naliuka
3. Synthesis of Local Controller Programmes for Enforcing Global Security Properties
   Fabio Martinelli and Ilaria Matteucci

Session H12: SREIS

1. Alignment of Misuse Cases with Security Risk Management
   Raimundas Matulevicius, Nicolas Mayer and Patrick Heymans
2. Modelling Security Properties in a Grid-based Operating System with Anti-Goals
   Alvaro Arenas, Benjamin Aziz, Juan Bicarregui, Brian Matthews and Erica Y. Yang
3. Analysis of Security Requirements for Cryptographic Voting Protocols
   Orhan Cetinkaya
4. Information Stream Based Model for Organizing Security
   Bernhard Thalheim, Sabah Al-Fedaghi and Khaled Al-Saqabi
5. Annotating Regulations Using Cerno: an Application to Italian Documents - Extended Abstract
   Nicola Zeni, Nadzeya Kiyavitskaya, James R. Cordy, Luisa Mich and John Mylopoulos

Friday, March 7, 2008

9:00 – 10:30   Parallel Sessions

Session B13: # Short: Hardware
Chair: A Min Tjoa

1. NFC Devices: Security & Privacy
   Gerald Madlmayr, Christian Saminger, Stefan Grünberger, Josef Langer, Christian Kantner, Josef Scharinger
2. Increasing the Performability of Computer Clusters Using RADIC II
   Guna Santos, Angelo Duarte, Dolores Rexachs, Emilio Luque
3. A Framework For Proactive Fault Tolerance
   Geoffroy Vallee, Kulathep Charoenpornwattana, Christian Engelmann, Anand Tikotekar, Chokchai Leangsuksun, Thomas Naughton, Stephen Scott
4. A Security Model and its Application to a Distributed Decision Support System for Healthcare
   Liang Xiao, Andrew Peet, Paul Lewis, Srinandan Dasmahapatra, Carlos Sáez, Madalina Croitoru, Javier Vicente, Horacio González-Vélez, Magí Lluch i Ariet, David Dupplaw, Alex Gibb

Session C13: # WPA
Chair: Gernot Goluch

1. A Comprehensive Approach for Context-dependent Privacy Management
   Mike Bergmann, Thomas Springer, Elke Franz, Christin Groba
2. Traceable Quantitative Risk Assessment Applied to Investment Decision for Local Backups
   Steffen Weiss, Martin Wahl, Michael Tielemann, Klaus Meyer-Wegener
3. Quantitative Assessment of Enterprise Security System
   Ruth Breu, Frank Innerhofer–Oberperfler, Artsiom Yautsiukhin
4. Detecting Bots Based on Keylogging Activities
   Yousof Al-Hammadi, Uwe Aickelin

Session D13: # WSDF

1. Wi-Fi Network Signals as a Source of Digital Evidence: Wireless Network Forensics
   Benjamin Turnbull and Jill Slay
2. Improving the Analysis of Lawfully Intercepted Network Packet Data Captured For Forensic Analysis
   Jill Slay, Benjamin Turnbull and Joshua Broadway
3. Recovery of Encryption Keys from Memory Using a Linear Scan
   Christopher Hargreaves and Howard Chivers

Session E13: # DAWAM
Chair: Nguyen Manh Tho

1. Adaptive Voting Algorithms for Reliable Dissemination of Data in Sensor Networks
   Kaliappa Ravindran, Kevin Kwiat and Mohammad Rabby
2. Risk as Dependability Metrics for the Evaluation of Business Solutions: A Model-driven Approach
   Yudistira Asnar, Rocco Moretti, Maurizio Sebastianis and Nicola Zannone
3. Implementing Multidimensional Security into OLAP tool
   Carlos Blanco, Eduardo Fernández-Medina, Juan Trujillo and Mario Piattini

Session F13: # APE
Chair: Rafael Accorsi

1. Weighted Datalog and Levels of Trust
   Stefano Bistarelli, Fabio Martinelli and Francesco Santini
2. Managing and Auditing Services for Enterprises Regulations
   Paolo Ceravolo and Ernesto Damiani
3. Negotiation of Usage Control Policies - Simply the Best?
   Alexander Pretschner and Thomas Walter

10:30 – 11:00   Coffee Break

11:00 – 12:30   Parallel Sessions

Session D14: # WSDF

1. Secure Steganography in Compressed Video Bitstreams
   Bin Liu and Fenlin Liu
2. Considerations Towards a Cyber Crime Profiling System
   Kweku Arthur, Martin Olivier and Hein Venter

Session E14: # DAWAM
Chair: Nguyen Manh Tho

1. Detecting Key Players in 11-M Terrorist Network: A Case Study
   Nasrullah Memon and David L. Hicks
2. Privacy Preserving Support Vector Machines in Wireless Sensor Networks
   Dongseong Kim, Muhammad Azim and Jongsou Park
3. An Image Encryption System by Cellular Automata with Memory
   F. Maleki, A. Mohades, S. M Hashemi and M. E. Shiri

Session F14: # Short: Networks
Chair: Edgar Weippl

1. The Impact of Flooding Attacks on Network-based Services
   Meiko Jensen, Nils Gruschka, Norbert Luttenberger
2. Managing Priorities in Atomic Multicast Protocols
   Emili Miedes, Francesc D. Muñoz-Escoí
3. Beacon Frame Spoofing Attack Detection in IEEE 802.11 Networks
   Asier Martínez, Urko Zurutuza, Roberto Uribeetxeberria, Miguel Fernández, Jesús Lizarraga, Ainhoa Serna

MESSAGE FROM THE CISIS-2008 ORGANIZERS

Welcome to the 2nd International Conference on *Complex, Intelligent and Software Intensive Systems* (CISIS-2008). The conference will be held at the Polytechnic University of Catalonia, Barcelona, Spain in conjunction with ARES-2008 International Conference. The aim of the conference is to deliver a platform of scientific interaction between the three interwoven challenging areas of research and development of future ICT-enabled applications: Software Intensive Systems, Complex systems and Intelligent Systems.

Software Intensive Systems are systems which heavily deal with other systems, sensors, actuators, devices, other software systems and users. More and more domains are involved with software intensive systems, e.g. automotive, telecommunication systems, embedded systems in general, industrial automation systems and business applications. Moreover, the outcome of web services delivers a new platform for enabling software intensive systems. The conference is thus focused on tools, practically relevant and theoretical foundations for engineering software intensive systems.

Complex Systems Research is focused on the overall understanding of systems rather than its components. Complex Systems are very much characterized by the changing environments in which they act and by their multiple internal and external interactions. They evolve and adapt through internal and external dynamic interactions.

The development of Intelligent Systems and agents which is each time more characterized by the use of ontologies and their logical foundations build a fruitful impulse for both, Software Intensive Systems and Complex Systems. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence and cognitive sciences are very important factor for the future development and innovation of software intensive and complex systems.

CISIS-2008 is aiming at delivering a forum for in-depth scientific discussions amongst the three communities.

The 40 papers included in the proceedings, selected from 84 submissions, cover all aspects of theory, design and application of complex systems, intelligent systems and software intensive systems.

The organization of an International Conference requires the support and help of many people. A lot of people have helped and worked hard to produce a successful CISIS-2008 technical program and conference proceedings. First, we would like to thank all the authors for submitting their papers, the Program Committee Members, and the reviewers who carried out the most difficult work by carefully evaluating the submitted papers. We would like to give special thanks to Dr. Fatos Xhafa as CISIS-2008 PC Chair for his excellent work and great efforts to deal with many problems of CISIS-2008 and preparing an interesting program.

This year in conjunction with CISIS-2008 we have 10 Workshops that complemented CISIS 2008 program with contributions for specific topics. We would like to thank the Workshop Co-Chairs Dr. Fatos Xhafa and Markus Aleksy and all the workshop organizers for organizing these workshops.

Finally, we would like to thank the Local Arrangement and the Administration Staff of Polytechnic University of Catalonia for their support and help and for making excellent local arrangement for the conference.

We hope you will enjoy the conference and have a great time in Barcelona.

General Co-Chairs

Leonard Barolli, Fukuoka Institute of Technology (FIT), Japan

A Min Tjoa, Vienna University of Technology, Austria

Makoto Takizawa, Tokyo Denki University, Japan

CISIS 2008 ORGANIZATION COMMITTEE

Conference Chairpersons

Leonard Barolli, Fukuoka Institute of Technology, Japan
A Min Tjoa, Vienna University of Technology, Austria
Makoto Takizawa, Tokyo Denki University, Japan

PC Chair

Fatos Xhafa, Technical University of Catalonia, Spain

Workshops Chair

Markus Aleksy, University of Mannheim, Germany

International Liaison Co-Chairs

Arjan Durresi, Louisiana State University, USA
Tomoya Enokido, Risso University, Japan

Publicity Chairs

Akio Koyama, Yamagata University, Japan
Irfan Awan, University of Bradford, UK
Thanasis Daradoumis, Open University of Catalonia, Spain

Publication Co-Chairs

Yoshitaka Shibata, Iwate Prefectural University, Japan
Roland Wagner, University of Linz, Austria

Local Organizing Committee

Joan Manel Marquès, Open University of Catalonia, Spain (co-chair)
Santi Caballe, Open University of Catalonia, Spain (co-chair)
Leonor Frias Moya, Technical University of Catalonia, Spain
Daniel Lazaro Open University of Catalonia, Spain
Xavier Vilasojana Open University of Catalonia, Spain

CISIS 2008 PROGRAMME COMMITTEE MEMBERS

Akio Koyama, Yamagata University, Japan
Mieso Denko, University of Guelph, Canada
Andrew Rau-Chaplin, Dalhousie University, Canada
Tomoya Enokido, Risho University, Japan
Joan Manel Marquès, Open University of Catalonia, Spain
Nguyen Manh Tho, Vienna University of Technology, Austria
Mukesh Mohania, IBM India Research Laboratory, India
Arjan Durresi, Louisiana State University, USA
Naohiro Hayashibara, Tokyo Denki University, Japan
Claudi Paniagua Maci, IBM GTS, Virtualization and Grid Computing EBO, Spain
Irfan Awan, University of Bradford, UK
Hui-huang Hsu, Tamkang University, Taiwan
Jin Hwan Park, State University of New York New Paltz, USA
Kuo-Ming Chao, Coventry University, UK
Muhammad Younas, Oxford Brookes University, UK
Bhed Bahadur Bista, Iwate Prefectural University, Japan
Minoru Uehara, Toyo University, Japan
Elhadi Shakshuki, Acadia Univiversity, Canada
David Taniar, Monash University, Australia
Nobuyoshi Sato, Iwate Prefectural University, Japan
Hiroaki Kikuchi, Tokai University, Japan
Sajid Hussain, Acadia University, Canada
Fumiaki Sato, Toho University, Japan
Kaoru Sugita, Fukuoka Institute of Technology, Japan
Timothy K. Shih, Tamkang University, Taiwan
Markus Aleksy, University of Mannheim, Germany
Takahiro Hara, Osaka University, Japan
Takuo Suganuma, Tohoku University, Japan
Wenny Rahayu, La Trobe University, Australia
Ismail Khalil Ibrahim, Johannes Kepler University Linz, Austria
Giuseppe De Marco, Toyota Technological Institute, Japan
Günther Pernul, University of Regensburg, Germany
Andrei Doncesku, University Paul Sabatier, France
Lin Guan, Loughborough University, UK
Frank Ball, Bournemouth University, UK
Ahmed Al-Dubai, Napier University, UK
Qiang Ni, Brunel University, UK
Juan Jose Alcaraz Espin, Technical University of Cartagena, Spain
Winston Seah, Institute for Infocomm Research, Singapore
Antonio Pescape, University of Napoli, Italy
Leonid Kalinichenko, Russian Academy of Science, Russia
Lawrence Y. Deng, St. John's and St.Mary's Institute of Technology, Taiwan
Xiangen Hu, University of Memphis, USA
Ching-Sheng Wang, Aletheia University, Taiwan
Kuei-Ping Shih, Tamkang University, Taiwan
Been-Chian Chien, National University of Tainan, Taiwan
Wen-Yang Lin, National University of Kaohsiung, Taiwan
Vincent Lee, Monash University, Australia
Michael Sheng, CSIRO ICT Centre, Australia
Soraya Kouadri M., Open University, UK
Karl R.P.H. Leung, Hong Kong Institute of Vocational Education (Tsing Yi)　HKIVE, Hong Kong
Victor C.S. Lee, City University of Hong Kong, Hong Kong
Henry Chan, Hong Kong Polytechnic University, Hong Kong
Hon-Va Leong, Hong Kong Polytechnic University, Hong Kong
Qing Lu, Hong Kong Polytechnic University, Hong Kong
Thomas Grill, University of Linz, Austria
Fabio Postiglione, University of Salerno, Italy
Said Mirza Pahlevi, National Institute of Advanced Industrial Science and Technology (AIST), Japan
Ajith Abraham, Yonsei University, Korea
Takuo Nakashima, Kyushu Tokai University, Japan
Helen Karatza, Aristotle University of Thessaloniki, Greece
Paul G. Spirakis, Research and Academic Computer Technology, Institute (RACTI) and Patras University , Greece
Yijun Yu, The Open University, UK
Robin Laney, Open University, UK
Matthias Hölzl, Ludwig-Maximilians-Universität München, Germany
John Mylopoulos, University of Toronto, Canada

Stefan Jaehnichen, Technical University Berlin, Fraunhofer FIRST, Germany
Bosiljka Tadic, J. Stefan Institute, Ljubljana, Slovenia
Albert Diaz-Guilera,Universitat de Barcelona, Spain
Mohand-Said Hacid, Universite Claude Bernard Lyon 1, France
Andrea Cali, Free University of Bozen-Bolzano, Italy
El-Ghazali Talbi, Lille University of Science and Technology, France
Rene Mayrhofer, Lancaster University, UK
Sabri Pllana, University of Vienna, Austria

CISIS 2008 WORKSHOP PROGRAMME COMMITTEE MEMBERS

Second International Workshop on P2P, Parallel, Grid and Internet Computing (3PGIC-2008)

Workshop Organizers / Chairs:
Leonard Barolli, Fukuoka Institute of Technology, Japan
Fatos Xhafa, Polytechnic University of Catalonia, Spain

Programme Committee Members:
Joan Manel Marques, Open University of Catalonia, Spain
Akio Koyama, Yamagata University, Japan
Arjan Durresi, Louisiana State University, USA
Claudi Paniagua Maci, IBM GTS, Virtualization and Grid Computing EBO, Spain
Runhe Huang, Hosei University, Japan
Irfan Awan, University of Bradford, UK
Hui-huang Hsu, Tamkang University, Taiwan
Jin Hwan Park, State University of New York New Paltz, USA
Muhammad Younas, Oxford Brookes University, UK
Bhed Bahadur Bista, Iwate Prefectural University, Japan
Tomoya Enokido, Rissho University, Japan
Elhadi Shakshuki, Acadia Univiversity, Canada
David Taniar, Monash University, Australia
Vamsi Paruchuri, University of Central Arkansas, USA
Markus Aleksy, University of Mannheim, Germany
Takahiro Hara, Osaka University, Japan
Takuo Suganuma, Tohoku University, Japan
Jiandong Li, Xidian University, China
Wenny Rahayu, La Trobe University, Australia
Ismail Khalil Ibrahim, Johannes Kepler University Linz, Austria
Giuseppe De Marco, Fukuoka Institute of Technology, Japan
Said Mirza, Advanced Institute of Science and Technology, Japan
Ajith Abraham, Yonsei University, Korea
Takuo Nakashima, Kyushu Tokai University, Japan
Bharadwaj Veeravalli, The National University of Singapore
Florin Pop, UPB, Romania
Valentin Cristea, UPB, Romania
Tevfik Kosar, Louisiana State University, USA

2008 International Workshop on Multi-Core Computing Systems (MuCoCoS'08)

Workshop Organizers / Co-Chairs:
Leonard Barolli, Fukuoka Institute of Technology, Japan
Sabri Pllana, University of Vienna, Austria
Fatos Xhafa, Polytechnic University of Catalonia, Spain

Programme Committee Members:
David A. Bader, Georgia Institute of Technology, USA
Leonard Barolli, Fukuoka Institute of Technology, Japan
Siegfried Benkner, University of Vienna, Austria
Luca Benini, University of Bologna, Italy
François Bodin, IRISA, University of Rennes, France
Rajkumar Buyya, University of Melbourne, Australia
Michel Cosnard, INRIA, France
Nathalie Drach, University of Paris VI - Pierre & Marie Curie, France
Michael Gschwind, IBM T.J. Watson Research Center, USA
Eleni Karatza, Aristotle University of Thessaloniki, Greece
Michael McCool, University of Waterloo, and RapidMind Inc., Canada
Pierre Michaud, IRISA/INRIA, France

Bernd Mohr, Research Centre Jülich, Germany
Lasse Natvig, Norwegian University of Science and Technology, Norway
Mohamed Ould-Khaoua, Sultan Qaboos University, Oman, and University of Glasgow, UK
Sabri Pllana, University of Vienna, Austria
Vivek Sarkar, Rice University, USA
Jie Tao, University of Karlsruhe, Germany
Jesper Larsson Träff, C&C Research labs, NEC Europe Ltd, Germany
Manolis Vavalis, CERETETH, Greece
Brian Vinter, University of Copenhagen, Denmark
Roland Wismüller, University of Siegen, Germany
Fatos Xhafa, Polytechnic University of Catalonia, Spain
Hans Zima, University of Vienna, Austria, and JPL/Caltech, USA

Second Workshop on Engineering Complex Distributed Systems (ECDS 2008)

Workshop Organizers / Co-Chairs:
Markus Aleksy, University of Mannheim, Germany
Leonard Barolli, Fukuoka Institute of Tech.,FIT, Japan
Makoto Takizawa, Tokyo Denki University, Japan

Programme Committee Members:
Irfan Awan, University of Bradford, UK
Bhed Bahadur Bista, Iwate Prefectural University, Japan
Giuseppe De Marco, Fukuoka Institute of Tech., Japan
Andrei Doncesku, University Paul Sabatier, France
Arjan Durresi, Louisiana State University, USA
Tomoya Enokido, Rissho University, Japan
Ralf Gitzel, ABB Corporate Research, Germany
Takahiro Hara, Osaka University, Japan
Naohiro Hayashibara, Tokyo Denki University, Japan
Hui-huang Hsu, Tamkang University, Taiwan
Axel Korthaus, University of Mannheim, Germany
Akio Koyama, Yamagata University, Japan
Nguyen Manh Tho, Vienna University of Tech., Austria
Dick Quartel, University of Twente, The Netherlands
Thomas Preuss, University of Brandenburg, Germany
Nobuyoshi Sato, Toyo University, Japan
Elhadi Shakshuki, Acadia Univiversity, Canada
Takuo Suganuma, Tohoku University, Japan
Kaoru Sugita, Fukuoka Institute of Technology, Japan
David Taniar, Monash University, Australia
Minoru Uehara, Toyo University, Japan
Marten van Sinderen, University of Twente, The Netherlands
Fatos Xhafa, Polytechnic University of Catalonia, Spain
Muhammed Younas, Oxford Brookes University, UK

The First International Workshop on Adaptive Systems in Heterogeneous Environments (ASHEs)

Workshop Organizers / Co-Chairs:
Rachid Anane, Coventry University, UK
Muhammad Younas, Oxford Brookes University, UK

Programme Committee Members:
Arantza Aldea, Oxford Brookes University, UK
Richard Anthony, University of Greenwich, UK
Behzad Bordbar, University of Birmingham, UK
Fabio Casati, University of Trento, Italy
Kuo-Ming Chao, Coventry University, UK
Jen-Yao Chung, IBM TJ Watson Research Center, USA
Zhan Cui, British Telecom Research Lab, UK
Larbi Esmahi, Athabasca University, Canada
Abdelkader Hameurlain, IRIT, University of Toulouse, France
Martin Hepp, DERI, Austria
Anne James, Coventry University, UK
Soraya Kouadri Mostefaoui, Open University, UK
Marta Kwiatkowska, Oxford University, UK
Yinsheng Li, Fudan University, China
Kwei-Jay Lin, University of California at Irvine, USA

Chi-Chun Lo, National Chiao Tung University, Taiwan
Massimo Mecella, University of Rome, Italy
Kozo Okano, Osaka University, Japan
Guadalupe Ortiz, University of Extremadura, Spain
David Parker, Oxford University, UK
Omer Rana, Cardiff University, UK
Indrakshi Ray, Colorado State University, USA
Weiming Shen, National Research Council of Canada
Georgios Theodoropoulos, University of Birmingham, UK
Steve Turner, Nanyang Technological University, Singapore

Web/Grid Information and Services Discovery (WGISD-2008)

Workshop Organizers / Co-Chairs:
Beniamino Di Martino, Second University of Naples, Italy
Laurence T. Yang, St. Francis Xavier University
Antonino Mazzeo, Università Federico II di Napoli
Salvatore Venticinque, Second University of Naples, Italy

Programme Committee Members:
Rocco Aversa, Second University of Naples, Italy
Rosa Badia, Computer Architecture Department, Techn. University of Catalunya (UPC), Spain
Frank Baetke, Global HPC-Technology Programme Manager HPTCD, Hewlett-Packard, USA
Roberto Basilli, Dept of Informatics, University of Roma Tor Vergata, Italy
Giovanni Cantone, Dept of Informatics, University of Roma Tor Vergata, Italy
Barbara Chapman, Dept of Computer Science, University of Houston, USA
Andrea Clematis, Imati CNR, Italy
David De Roure, School of Electronics and Computer Science, University of Southampton, UK
Tom Dhaene, Dept of Information Technology (INTEC), Ghent University – IBBT, Belgium
Davide Falessi, Dept of Informatics and Systems (DISP) Univ. Roma Tor Vergata , Italy
Michael Gerndt, TUM Monaco, Germany
Carol Goble, School of Computer Science in the University of Manchester, UK
Jordi Guitart, Barcelona Supercomputer Center (BSC), Spain
Manish Gupta, IBM T.J.Watson, USA
Christoph Kessler, Computer Science Dept. (IDA)
Dieter Kranzlmueller, Joh. Kepler University Linz, Austria
Coromoto Leon Hernandez, University of La Laguna, Canary Islands, Spain
Nicola Mazzocca, University Federico II of Naples, Italy
Marcin Paprzycki, Computer Science Institute at the Warsaw School of Social Psychology, Poland
Dana Petcu, Computer Science Department of Western University of Timisoara, Romania
Antonio Puliafito, University of Messina, Italy
Omer Rana, School of Computer Science, Cardiff University, UK
Casiano Rodriguez Leon, University of La Laguna, Canary Islands, Spain
Vaidy Sunderam, Department of Mathematics and Computer Science, Emory University, USA
Domenico Talia, University of Calabria, Italy
Ming Xu, National University of Defense Technology Changsha, Hunan

International Workshop on Collaborative e-Learning Systems and Applications (CESA2008)

Workshop Organizers / Chairs:
Thanasis Daradoumis, Open University of Catalonia, Spain
Joan Manuel Marquès, Open University of Catalonia, Spain
Santi Caballé, Open University of Catalonia, Spain

Programme Committee Members:
Leandro Navarro, Universitat Politècnica de Catalunya, Catalonia, Spain
Miguel Bote, Universidad de Valladolid, Spain
Simos Retalis, University of Piraeus, Greece
Josep Jorba, Universitat Oberta de Catalunya, Catalonia, Spain
Pedro García, Universitat Rovira i Virgili, Catalonia, Spain
Giorgos Tsekouras, University of Aegean, Mytilini, Greece
Pilar Herrero, Universidad Politécnica de Madrid, Spain
Nicola Capuano, Centro di Ricerca in Matematica Pura ed Applicata, Salerno, Italy
Àngel Juan Pérez, Universitat Politècnica de Catalunya, Catalonia, Spain
Xavier Vilasojana, Universitat Oberta de Catalunya, Catalonia, Spain
Oscar Ardaiz, Pamplona, Universidad Pública de Navarra, Spain
Alexandra Poulovassilis, Birkbeck University of London, United Kingdom
Abelardo Pardo, Universidad Carlos III de Madrid, Spain

Daniel Lazaro, Universitat Oberta de Catalunya, Catalonia, Spain
Ruby Krishnaswamy, France Telecom, France

First International Workshop on Intelligent Interfaces for Human-Computer Interaction (IIHCI-2008)

Workshop Organizers / Chairs:
Salvatore Vitabile, University of Palermo, Italy
Antonio Gentile, University of Palermo, Italy

Programme Committee Members:
Ben Abderazek, University of Aizu, Japan
Lewis Baumstark, University of West Georgia, USA
Kenneth Camilleri, University of Malta, Malta
Antonio Camurri, University of Genova, Italy
Sek Chai, Motorola Labs, USA
Antonio Chella, University of Palermo, Italy
Massimo Cossentino, ICAR-CNR, Italy
Luca Fanucci, University of Pisa, Italy
Salvatore Gaglio, University of Palermo, Italy
Alessandro Genco, University of Palermo, Italy
Houcine Hassan, Universidad Politécnica de Valencia, Spain
Nunzio Ingraffia, Engineering – Ingegneria Informatica S.p.A, Italy
Eugene John, University of Texas at San Antonio, USA
Vincenzo Lombardo, University of Torino, Italy
Mauro Migliardi, University of Padova, Italy
Marnix Nuttin, Katholieke Universiteit Leuven, Belgium
Giovanni Pilato, ICAR-CNR, Italy
Roberto Pirrone, University of Palermo, Italy
Filippo Sorbello, University of Palermo, Italy
Laurence Yang, St Francis Xavier University, Canada

International Workshop on Intelligent Informatics in Biology and Medicine (IIBM-2008)

Workshop Organizers / Chairs:
Hui-Huang Hsu, Tamkang University, Taiwan
Sun Kim, Indiana University, USA
Vipin Chaudhary, SUNY at Buffalo, USA
Vincent S. Tseng, National Cheng Kung University, Taiwan

Programme Committee Members:
Tatsuya Akutsu, Kyoto University, Japan
Chaur-Chin Chen, National Tsinghua University, Taiwan
Youping Deng, University of Southern Mississippi, USA
Jorng-Tzong Horng, National Central University, Taiwan
Chien-Yeh Hsu, Taipei Medical University, Taiwan
Chun-Nan Hsu, Academia Sinica, Taiwan
Jun Huan, University of Kansas, USA
Jari Hyttinen, Tampere University of Technology, Finland
Jaewoo Kang, Korea University, Korea
Hyunsoo Kim, Harvard University, USA
David P. Kreil, Boku University Vienna, Austria
Li Liao, University of Delaware, USA
Martin Middendorf, University of Leipzig, Germany
Oliver Ray, University of Bristol, UK
Robert Stevens, The University of Manchester, UK
El-Ghazali Talbi, LIFL (CNRS-INRIA-USTL), France
Daming Wei, University of Aizu, Japan
Limsoon Wong, National University of Singapore, Singapore
Laurence T. Yang, St. Francis Xavier University, Canada

International Workshop on Ontology Alignment and Visualization - OnAV'08

Workshop Organizers / Co-Chairs:
Monika Lanzenberger, Vienna University of Technology, Austria
Jennifer Sampson, NICTA (National ICT Australia), Australia

Programme Committee Members:
Robert Baumgartner, Lixto Software GmbH, Austria
Sean Falconer, Univ. of Victoria, Canada
Eduard Gröller, Vienna Univ. of Technology, Austria
Jon Atle Gulla, NTNU, Norway
Sari Hakkarainen, NTNU, Norway
Anthony Jameson, DFKI, Germany
Katharina Kaiser, Vienna Univ. of Technology, Austria
Konstantinos Kotis, Univ. of the Aegean, Greece
Thibaud Latour, CRP Henri Tudor, Luxembourg
Elke Michlmayr, Vienna Univ. of Technology, Austria
Silvia Miksch, Danube Univ. Krems, Austria
Yannick Naudet, CRP Henri Tudor, Luxembourg
Slawomir Niedbala, Silesian Univ. of Technology, Poland
Natasha Noy, Stanford Univ., USA
Oscar Pastor López, Univ. Politécnica de Valencia, Spain
Margit Pohl, Vienna Univ. of Technology, Austria
Axel Polleres, DERI, Ireland
Markus Rester, Vienna Univ. of Technology, Austria
Jinghai Rao, CMU, USA
Martina Seidl, Vienna Univ. of Technology, Austria
Pavel Shvaiko, Univ. of Trento, Italy
Guttorm Sindre, NTNU, Norway
Darijus Strasunskas, NTNU, Norway
Merwyn G. Taylor, MITRE Corp., USA
Csaba Veres, DSTO, Australia
Anna V. Zhdanova, ftw., Austria

CISIS 2008 & CISIS WORKSHOP PROGRAMME

Tuesday, March 4, 2008

9:00 – 10:30   Single Session

    Session A1: Welcome and Opening Ceremony
    Keynote Günther Pernul: Infrastructure Support for Authorization, Access Control and Privilege Management

10:30 – 11:00   Coffee Break

11:00 – 12:30   Parallel Sessions

    Session I2: # Wireless Networks
    Chair: Fatos Xhafa

1. An Intelligent Handoff System for Wireless Cellular Networks Using Fuzzy Logic and Random Walk Model
   Leonard Barolli, Fatos Xhafa, Arjan Durresi, Akio Koyama
2. Evaluation of the Reliable Data Transmission Protocol in Wireless Sensor-Actuator Networks
   Kiyohiro Morita, Keiji Ozaki, Tomoya Enokido, Makoto Takizawa
3. An efficient distributed self-organizing routing algorithm for Wireless Sensor Networks
   Hugues Smeets, Ann Nowé, Kris Steenhaut
4. Wireless Communication Quality Monitoring with Modeling Approach
   Minoru Kotaki, Dauren Akhmetov

    Session J2: # Parallel, Autonomic & Service-based Applications
    Chair: Sabri Pllana

1. Demonstrating communication services based on autonomic self-organization
   Albano Bernadas, Antonio Manzalini, Rosario Alfano, Josep Solé-Pareta
2. Combining Generic Programming and Service-Oriented Architectures for the Effective and Timely Development of Complex e-Learning Systems
   Santi Caballé
3. Testing complex safety-critical systems in SOA context
   R. Donini, S. Marrone, N. Mazzocca, A. Orazzo, D. Papa, S. Venticinque
4. Services based Integrated Architecture for Adaptive Multimedia Delivery
   Rocco Aversa, Beniamino Di Martino, Salvatore Venticinque

    Session L2: # IIHCI-S1e
    Chair: Salvatore Gaglio

1. Towards a Multimodal Visualization of Environmental Soft Sensors Prediction
   Umberto Maniscalco, Patrizia Ciarlini, Rossella Cossu
2. HumoristBot: Bringing Computational Humour into a Chat-Bot System
   Agnese Augello, Gaetano Saccone, Giovanni Pilato, Salvatore Gaglio
3. A Java3D Talking Head for a Chatbot
   Salvatore Gaglio, Roberto Pirrone, Giovanni Pilato, Orazio Gambino, Agnese Augello, Alessandro Caronia
4. GAIML: a new language for verbal and graphical interaction in chatbots
   Roberto Pirrone, Vincenzo Cannella, Giuseppe Russo

12:30 – 13:30   Lunch Break

13:30 – 15:00   Parallel Sessions

    Session I3: # P2P Computing
    Chair Leonard Barolli

1. Extending JXTA Protocols for P2P File Sharing Systems
   Fatos Xhafa, Leonard Barolli, Raul Fernández, Thanasis Daradoumis, Santi Caballé, Vladi Kolici
2. Making Societies in Peer-to-peer (P2P) Overlay Networks
   Masakazu Maruok, Valbona Barolli, Tomoya Enokido, Makoto Takizawa
3. Checkpointing in a Distributed Coordination Protocol for Multiple Peer Processes
   Ailixier Aikebaier, Tomoya Enokido, Makoto Takizawa
4. Actuator-Device Coordination in a Reliable Sensor, Actuator, and Device Network (SADN)
   Keiji Ozaki, Tomoya Enokido, Makoto Takizawa

Session J3: # Distributed Systems and Simulation
Chair: Markus Aleksy

1. A distributed approach for structured resource discovery on Grid
   Andrea Clematis, Angelo Corana, Daniele D'Agostino, Vittoria Gianuzzi, Alessio Merlo, Alfonso Quarati
2. A Distributed Simulation Environment for Simulation Modeling in Operational Risk Management
   Markus Aleksy, Stefan Seedorf, Christian Cuske
3. Hybrid Performance Modeling and Prediction of Large-Scale Computing Systems
   Sabri Pllana, Siegfried Benkner, Fatos Xhafa, Leonard Barolli

Session L3: # IIHCI-S2
Chair: Roberto Pirrone

1. XPL and the Synchronization of Multimodal User Interfaces based on Design Pattern
   Marilia Liotta, Antonella Santangelo, Giuseppe Vella, Nunzio Ingraffia, Antonio Gentile
2. The eXtensible Dynamic Presentation Manager for content adaptation
   Roberto Raccuglia, Giuseppe Vella, Antonella Santangelo, Nunzio Ingraffia, Antonio Gentile
3. A Multimodal Guide for Virtual 3D Models of Cultural Heritage Artifacts
   Eleonora Trumello, Antonella Santangelo, Antonio Gentile, Salvatore Gaglio
4. User-friendly Inspection of Medical Image Data Volumes in Virtual Environments
   Luigi Gallo, Giuseppe De Pietro, Ivana Marra

15:00 – 15:30   Coffee Break

15:30 – 17:30   Parallel Sessions

Session I4: # Software Intensive Systems
Chair: Santi Caballé

1. Tangible Interfaces for Interactive Software Intensive Presentations
   Kamen Kanev
2. Adaptive Computational Chemotaxis in Bacterial Foraging Optimization: An Analysis
   Sambarta Dasgupta, Arijit Biswas, Ajith Abraham, Swagatam Das
3. An Improved Non-linear Image Enhancement Method for Video Coding
   Lung-Jen Wang, Ya-Chun Huang
4. A Novel Embedded Fingerprints Authentication System based on Singularity Points
   Militello Carmelo, Conti Vincenzo, Sorbello Filippo, Salvatore Vitabile

Session J4: # Optimization and Mathematical Modelling
Chair: Takuo Nakashima

1. A Computing Model for Marketable Quality and Profitability of Corporations: A Case Study Evaluation Using a New Sources Data
   Heihachiro Fukuda , Valbona Barolli, Leonard Barolli, Makoto Takizawa
2. Evolving Turbo Code Interleavers by Genetic Algorithms
   Ajith Abraham, Pavel Kromer, Vaclav Snasel, Nabil Ouddane
3. Hardware/Software Partitioning Problem in Embedded System Design Using Particle Swarm Optimization Technique
   Amit Konar Amit Konar, Alakananda Bhattacharya, Ajith Abraham, Swagatam Das
4. Implicit Deadline Calculation for Seller Agent Bargaining in Information Marketplaces
   Kostas Kolomvatsos, Stathes Hadjiefthymiades

Session L4: # IIHCI-S3
Chair: Luca Fanucci

1. A Java-based Wrapper for Wireless Communications
   Alessandro Genco, Salvatore Sorce, Cono Ferrarotto, Roberto Gallea, Antonino Gentile, Sandro Impastato, Marco Morana
2. Game console controller interface for people with disability
   Fabrizio Iacopetti, Luca Fanucci, Roberto Roncella, David Giusti, Andrea Scebba
3. PDA – Remote Display Interaction Framework
   Alessandro Genco, Salvatore Sorce, Rosario Messineo, Paolo Raccuglia

Wednesday, March 5, 2008

9:00 – 10:30   Single Session

Session A5: # Keynote Timothy K. Shih: Video Inpainting

10:30 – 11:00   Coffee Break

11:00 – 12:30   Parallel Sessions

Session O6: # Sensor Networks, MANET and Applications
Chair: Arjan Durresi

1. Extraction of Characteristics of Anomaly Accessed IP Packets by the Entropy-based Analysis
   Takuo Nakashima, Shunsuke Oshima, Yusuke Nishikido, Toshinori Sueyoshi
2. Secure Mobile Communications for Battlefields
   Arjan Durresi, Mimoza Durresi, Leonard Barolli
3. Techniques for Efficient Resource Management for Context-Sensitive Mobile Applications
   Markus Aleksy, Ralf Gitzel, Gerhard Vollmar, Nicolaie Fantana, Christian Stich, Makoto Takizawa
4. Dynamic Probabilistic Flooding Performance Evaluation of On-Demand Routing Protocols in MANETs
   Abdalla Hanashi, Aamir Siddique, Irfan Awan, Mike Woodward

Session P6: # XML & Data Processing
Chair: Makoto Takizawa

1. A Consistency Combination Algorithm for Global Dynamic Computation and Data Decomposition
   Han Lin, Zhao RongCai, Pang JianMin
2. Realizing a News Value Markup Language for News Management Systems Using NewsML
   Masayuki Kodama, Tadachika Ozono, Toramatsu Shintani, Yasuyoshi Aosaki
3. Discovery of Frequent Query Patterns in XML Pattern Graph with DTD Cardinality Constraints
   Yunfeng Liu, Tengjiao Wang
4. Active XML Replication and Recovery
   Debmalya Biswas

Session M6: # ECDS-S1
Chair: Leonard Barolli

1. Java Remote Job Execution System
   Shanliang JIANG, Stuart CLEMENTS
2. The Secure Three-Tier Architecture pattern
   Eduardo B. Fernandez, Mihai Fonoage, Michael VanHilst, Mirela Marta
3. MC-CDMA: An Alternative Multiple Access Technique in 3G Wireless Architecture
   Md. Razib Hayat Khan, Abul Ahsan Md. Mahmudul Haque, A.F.M Sultanul Kabir, Md. Sakhawat Hossen
4. Tomorrow's Open Internet for Telco and Web federation
   Antonio Manzalini

Session N6: # OnAV-S1
Chair: Jennifer Sampson

1. Ontology Matching based on the comparison of Axioms represented with Conceptual Graphs
   Frederic Furst, Francky Trichet
2. Visual tracing of automatic ontology merging
   Martin Eller, Bernhard Schiemann
3. An Approach for Mapping of Domain-based Local Ontologies
   Abdolreza Hajmoosaei, Sameem Abdul Kareem
4. Comparison of textual renderings of ontologies for improving their alignment
   Jorge Martinez-Gil, Ismael Navas-Delgado, Jose F. Aldana-Montes

12:30 – 13:30   Lunch Break

13:30 – 15:00   Parallel Sessions

Session O7: # Web & Ontology and Semantic approaches
Chair: Salvatore Vitabile

1. A Quantitative Treatment to Data from Computer-Supported Collaboration: An Ontological Approach
   Luis Casillas, Thanasis Daradoumis
2. Web Performance and Behavior Ontology
   Carlos Guerrero, Carlos Juiz, Ramon Puigjaner
3. Facilitating Interoperability in Semantic Web Applications Using Ontologies
   Jennifer Sampson , Monika Lanzenberger, Csaba Veres

Session P7: # Applications of Complex and Intelligent Systems I
Chair: Andrei Doncescu

1. An Embedded Real-Time Lane-Keeper for Automatic Vehicle Driving
   Salvatore Vitabile, Salvatore Bono, Filippo Sorbello
2. The Web Goes Mobile: Can we keep the Pace?
   Gabriele Kotsis , Ismail Khalil Ibrahim
3. Diagnostic and Therapy Prediction in Breast Cancer by Consistent Knowledge Discovery
   Andrei Doncescu

Session M7: # ECDS-S2
Chair: Markus Aleksy

1. Integrating Shadows in Model Driven Engineering for Agile Software Development
   Marc Conrad, Marianne Huchard, Thomas Preuss
2. Agile Methodologies for Distributed Collaborative Development of Enterprise Applications
   Tobias Hildenbrand, Michael Geisser, Thomas Kude, Denis Bruch, Thomas Acker
3. Approaches to Collaborative Software Development
   Tobias Hildenbrand, Franz Rothlauf, Michael Geisser, Armin Heinzl, Thomas Kude

Session N7: # OnAV-S2
Chair: Monika Lanzenberger

1. SmartMatcher – How Examples and a Dedicated Mapping Language can Improve the Quality of Automatic Matching Approaches
   Horst Kargl, Manuel Wimmer
2. Ontology Mapping Through Tagging
   Colm Conroy, Declan O'Sullivan, David Lewis
3. Semantic Comparison of Ontologies based on Wordnet
   Encarna Sosa, Adolfo Lozano-Tello, Alvaro E. Prieto

15:00 – 15:30   Coffee Break

15:30 – 17:30   Parallel Sessions

Session O8: # Applications of Complex and Intelligent Systems II
Chair: Hui Huang

1. Developing an Information System for Monitoring Student's Activity in Online Collaborative Learning
   Angel Juan, Thanasis Daradoumis, Javier Faulin, Fatos Xhafa
2. The effects of a plantar pressure-based, tongue-placed tactile biofeedback system on the regulation of the centre of foot pressure displacements during upright quiet standing: a fractional Brownian motion analysis
   Nicolas Vuillerme, Olivier Chenu, Anthony Fleury, Yohan Payan, Jacques Demongeot
3. Segmentation of the Liver from Abdominal CT Using Multi-featured Markov Random Fields
   Vipin Chaudhary, Raja Alomari, Suryaprakash Kompalli

Session P8: # 3PGIC-S1
Chair: Fatos Xhafa

1. Pricing Computational Resources in Dynamic Grid
   Khalid Abdelkader, Jan Broeckhove
2. Bidding support for computational resources
   Xavier Vilajosana, Joan Manuel Marquès, Ruby Krishnaswamy, Angel A. Juan, Nejla Amara-Hachmi, Leandro Navarro
3. Communication Model for Decentralized Meta-Scheduler in Grid Environments
   Florin Pop
4. Supervising Agent Team in an Agent-based Grid Resource Brokering System—Initial Solution
   Wojciech Wojciech Kuranowski, Maria Ganzha, Marcin Paprzycki, Ivan Lirkov

Session M8: # ECDS-S3
Chair: Markus Aleksy

1. SOA as an Effective Tool for the Flexible Management of Increased Service Heterogeneity in Converged Enterprise Networks
   Lukas Auer, Natalia Kryvinska, Peter Zinterhof
2. Methodologies for Designing Agent Societies
   Mariachiara Puviani, Giacomo Cabri, Letizia Leonardi

Session N8: # OnAV-S3
Chair: Markus Rester

1. Semantic mappings: out of ontology world limits
   José Ángel Ramos
2. 'Positon Paper' Processing ontology alignments with SPARQL
   Jérôme Euzenat, François Scharffe, Axel Polleres
3. 'Positon Paper' Dynamic Thesaurus Construction from English-Japanese
   Yoshihiro Shimoji, Sachio Hirokawa
4. Positon Paper' Ontology Matching: current status, dilemmas and future challenges
   Konstantinos Kotis, Monika Lanzenberger

Thursday, March 6, 2008

9:00 – 10:30   Single Session

Session A9: # Keynote Vijay Atluri: **Security and Privacy Challenges in Location Based Service Environments**

10:30 – 11:00   Coffee Break

11:00 – 12:30   Parallel Sessions

Session A10: # Keynote Ravi Sandhu: ASCAA Principles for Next-Generation Role-Based Access Control

Session J10: # 3PGIC-S2
Chair: Leonard Barolli

5. Managing Networks of Mobiles Entities using the HyVonNe P2P Architecture
   Vittoria Gianuzzi, Alessio Merlo, Andrea Clematis, Daniele D'Agostino
6. LightPS: Lightweight Content-based Publish/Subscribe for Peer-to-Peer Systems
   Jordi Pujol Ahulló, Pedro García López, Antonio F. Gómez Skarmeta
7. An Efficient Deployment Schema of Active Sensor Peers for Location-based Publish/Subscribe Services
   Hiroki Saito, Yoichi Nakamura, Kazumasa Ogawa
8. Persistent interoperable security for JXTA
   Joan Arnedo-Moreno, Jordi Herrera-Joancomartí

Session K10: # ASHEs-S1
Chair: Chi-Chun Lo

5. Autonomous Coordination Technology to Achieve Continuous Service in Autonomous Decentralized VoD Systems
   Xiaodong Lu, Kinji Mori
6. Autonomous Mobile Agent Coordination Technology for Fungible Multi-Services to Achieve High Response Time
   Shoichi Murakami, Sotrao Kimura, Xiaodong Lu, Kinji Mori
7. A Study on Representation of QoS in UDDI for Web Services Composition
   Lo Chi-Chun, Cheng Ding-Yuan, Lin Ping-Chi, Chao Kuo-Ming
8. Group Organizational Structure Adaptation for Groupware Applications
   Mario Anzures-García, Luz A. Sánchez-Gálvez

Session M10: # CESA-KEYNOTE

Session L10: # IIBM-S1
Chair: Ignazio Infantino

1. Design of a Remote Monitoring Platform for Telemedicine Systems Using New Generation Mobile Services
   Silvia Blasco, J. David Uceda, Mar Elena, J. Manuel Quero
2. Testing and evaluation of microarray image analysis software
   Ignazio Infantino, Carmelo Lodato, Salvatore Lopes
3. Development of a Vital Sign Data Mining System for Chronic Patient Monitoring
   Vincent S. Tseng, Lee-Cheng Chen, Chao-Hui Lee, Jin-Shang Wu, Yu-Chia Hsu

12:30 – 13:30   Lunch Break

13:30 – 15:00   Parallel Sessions

Session J11: # 3PGIC-S3
Chair: Florin Pop

1. Performance analysis of Data replication in Grid Delivery Network
   Baert Anne-Elisabeth, Boudet Vincent, Jean-Marie Alain
2. A User-Profile-Oriented Mediation Architecture for Very Large DataBases in Dynamic Inter-Grid Context
   Nadia Bennani, julien Gossa, Ny Haingo Andrianarisoa
3. Semantic Enabled Metadata Framework for Data Grids
   Dayong Huang, Xinqi Wang, Gabrielle Allen, Tevfik Kosar
4. Experiences on Grid Shared Data Programming
   Dacian Tudor, Vladimir Cretu

Session K11: # ASHEs-S2
Chair: Ivan Stojmenovic

1. A Study of Maximum Lifetime Routing in Sparse Sensor Networks
   Ewa Hansen, Mikael Nolin, Mats Björkman
2. The Research of frame and key technologies for Intrusion Detection System in IEEE 802.11-based Wireless Mesh Networks
   Hongjian Li, Ming Xu, Yi Li
3. Simplified Bluetooth Scatternet Formation Using Maximal Independent Sets
   Nejib Zaguia, Ivan Stojmenovic, Yassine Daadaa
4. Research and Analysis of Topology Control in NS-2 for Ad-hoc Wireless Network
   Xu Li, Bo Hui, Haixia Liu, Mei Song, Wei Guo

Session M11: # CESA-S1
Chair: Santi Caballé

1. Towards the Construction of a Multi-agent Approach for Discovering the Meaning of Natural Language Collaborative Conversations
   Luis Casillas, Thanasis Daradoumis
2. Adaptive Collaboration Scripting: A Conceptual Framework and a Design Case Study
   Stavros Demetriadis, Anastasios Karakostas
3. e-Learning at Work in the Knowledge Virtual Enterprise
   Nicola Capuano, Sergio Miranda, Francesco Orciuoli, Stefania Vassallo

Session L11: # IIBM-S2
Chair: Hui-Huang Hsu

1. Interaction motifs in regulatory networks and structural robustness
   A. Elena, Jacques Demongeot
2. Inferring the function of genes from synthetic lethal mutations
   Oliver Ray, Chris Bryant
3. Robustness of Dynamical Systems Attraction Basins Against State Perturbations: Theoretical Protocol and Application in Systems Biology
   Jacques Demongeot, Michel Morvan, Sylvain Sené

15:00 – 15:30   Coffee Break

15:30 – 17:30   Parallel Sessions

Session J12: # 3PGIC-S4
Chair: Marcin Paprzycki

1. A framework for decentralized Xconferencing and its JXTA implementation
   Ahmed Meddahi, Gilles Vanwormhoudt, Amro Malkawi
2. An Architecture for Decentralized Service Deployment
   Daniel Lázaro, Joan Manuel Marquès, Josep Jorba
3. Enabling parallel TMA image analysis in a Grid environment
   Antonella Galizia, Federica Viti, Alessandro Orro, Daniele D'Agostino, Ivan Merelli, Luciano Milanesi, Andrea Clematis
4. An Efficient Hybrid P2P Approach for Non-Redundant Tree Exploration in B&B Algorithms
   Malika Mehdi, Mohand Mezmaz, Nouredine Melab, El Ghazali Talbi, Pascal Bouvry

Session K12: # ASHEs-S3
Chair: Rachid Anane

1. HGRID: An Adaptive Grid Resource Discovery
   Antonia Gallardo, Luis Diaz de Cerio, K. Sanjeevan
2. Evaluation of Clustering techniques for Efficient Searching in a JXTA-based P2P
   Fatos Xhafa, Enric Jaen Villoldo, Thanasis Daradoumis, Leonard Barolli

Session M12: # CESA-S2
Chair: Th. Daradoumis

1. Supporting Communities of Learning Practice by the Effective Embedding of Information and Knowledge into Group Activity
   Santi Caballé, Jerome Feldman, David Thaw
2. Implementation and Design of New Functions for a Web-based E-learning System to Stimulate Learners Motivation
   Keita Matsuo, Leonard Barolli, Fatos Xhafa, Akio Koyama, Arjan Durresi, Makoto Takizawa
3. Towards decentralized resource allocation for collaborative peer to peer learning environments
   Xavier Vilajosana, Daniel Lázaro, Joan Manuel Marques, Angel A. Juan
4. CoPE: Democratic CSCW in Support of e-Learning
   David Thaw, Jerome Feldman, Joseph Li, Santi Caballe

Session L12: # IIBM-S3
Chair: Oliver Ray

1. Protein Disordered Region Prediction by SVM with Post-Processing
   Cheng-Wei Hsieh, Hui-Huang Hsu, Ming-Da Lu
2. An SSR Comparative Genomics Database and Its Applications
   Tun-Wen Pai, Meng-Chang Hsiao, Chien-Ming Chen, Wen-Shyong Tzou, Ron-Shan Chen
3. Splice Site Recognition in DNA Sequences Using K-mer Frequency Based Mapping for Support Vector Machine with Power Series Kernel
   Robertas Damasevicius

Friday, March 7, 2008

9:00 – 10:30   Parallel Sessions

Session J13: # FCISIS-S1
Chair: Leonard Barolli

1. A mechanism of application-network interactions in a high-speed optical network
   Vincent Reinhard, Joanna Tomasik
2. Web and Grid Services for improving ambient intelligence embedded in pervasive, personal ECG devices
   Hussein Atoui, Jocelyne Fayn, Paul Rubel
3. Data fusion for analysis of persistence in pervasive actimetry of elderly people at home, and the notion of biological age
   Jacques Demongeot, N. Noury, N. Vuillerme

Session K13: # MuCoCos-KEYNOTE (David A. Bader)
Chair: Sabri Pllana

1. Embla -- Data Dependence Profiling for Parallel Programming
   Karl-Filip Faxen, Konstantin Popov, Sverker Jansson, Lars Albertsson
2. Latency Impact on Spin-Lock Algorithms for Modern Shared Memory Multiprocessors
   Jan C. Meyer, Anne C. Elster

Session M13: # WGISD-S1
Chair: Beniamino Di Martino

1. The Grid4All ontology for the retrieval of traded resources in a market-oriented Grid
   Konstantinos Kotis, George Vouros, Alexandros Valarakos, Andreas Papasalouros, Xavier Vilajosana, Ruby Krishnaswamy
2. Toward a semantic approach for automatic composition of Learning Grid Services
   Gustavo Gutiérrez-Carreón, Thanasis Daradoumis, Josep Jorba
3. Optimizing Decentralized Grid Markets trough Group Selection
   Isaac Chao, Ramon Sangüesa, Oscar Ardaiz, Liviu Joita, Omer F. Rana
4. An Adaptation Approach for Grid E-Learning Services
   Mihaela Brut, Sabin Buraga

10:30 – 11:00   Coffee Break

11:00 – 12:30   Parallel Sessions

Session J14: # FCISIS-S2
Chair: Fatos Xhafa

1. Memory System Design for a Multi-core Processor
   Jianjun Guo
2. Multithreaded Translation of Ptolemy II designs on Multicore Platforms
   Alberto Gonzalez Tellez, Miguel Mateo Pla
3. On the Design of a SoPC Based Multi-Core Embedded System
   Tai-On Kwok, Yu-Kwong Kwok

Session K14: # MuCoCos-S2
Chair: David A. Bader

1. Escaping from the HOL blocking: a Dynamic Virtual Channel Architecture for the On-Chip Routers
   Lai Mingche
2. On the Potential of NoC Virtualization for Multicore Chips
   Jose Flich, Samuel Rodrigo, Jose Duato, Thomas Sødring, Åshild Grønstad Solheim, Tor Skeie, Olav Lysn
3. Efficiently Implementation of Wireless Applications on Dynamically Reconfigurable Processor based Multi-core platform
   Wei Han, Ying Yi, Mark Muir, Ioannis Nousias, Tughrul Arslan, Ahmet Erdogan
4. Multi-Variant Program Execution: Using Multi-Core Systems to Defuse Buffer-Overflow Vulnerabilities
   Babak Salamat, Andreas Gal, Todd Jackson, Karthikeyan Manivannan, Gregor Wagner, Michael Franz

Session M14: # WGISD-S2
Chair: Salvatore Vinticinque

1. A Service-Oriented Approach for Semantic Annotation and Retrieval inside the Pervasive E-Learning Systems
   Mihaela Brut, Dana Al-Kukhun, Florence Sedes
2. Remote Service to solve the Two-Dimensional Cutting Stock Problem. An application to the Canary Islands costume
   Jesica de Armas, Coromoto Leon, Gara Miranda, Carlos Segura
3. An integrated system, with natural language management, for the monitoring activities in e-learning environments
   Orlando De Pietro, Giovanni Frontera
4. Towards the Automatic Service Generation and Scheduling in the OpenCF Project
   Adrian Santos, Francisco Almeida, Vicente Blanco, David Diez, Jonás Regueira, Esaú Sicilia
   Adrian Santos, Francisco Almeida, Vicente Blanco, David Diez, Jonás Regueira, Esaú Sicilia

12:30 – 13:30   Coffee Break

13:30 – 15:00   Parallel Sessions

Session J15: # FCISIS-S3
Chair: Leonard Barolli

1. Java and the Power of Multi-Core Computing
   Peter Bertels, Dirk Stroobandt
2. A Novel Automated Design approach to Guide the Processor Element Based on the Cost Estimation Model
   Lai Mingche
3. Developing Concurrent Applications on Emerging Multicore Platforms
   Shangping Ren, Jerzy Nogiec

Session K15: # MuCoCos-S3
Chair: Siegfried Benkner

1. User-Land Work Stealing Schedulers: Towards a Standard
   Joerg Wagner, Armin Jahanpanah, Jesper Larsson Traff
2. Single-Pass List Partitioning
   Leonor Frias, Johannes Singler, Peter Sanders
3. The Graphics Processor as a Mathematical Coprocessor in MATLAB
   André Rigland Brodtkorb
4. A Parallel Algorithm for Advanced Video Motion Estimation on Multicore Architectures
   Svetislav Momcilovic, Leonel Sousa

Session M15: # WGISD-S3
Chair: Coromoto Leon

1. Ontology-based Modeling and Execution of Workflows for a Virtual ISP
   Daniel Pop, Florin Fortis, Viorel Negru
2. The Web Site of MUSA. A Work in Progress of Knowledge Management
   Grazia Maria Signore
3. Building RDF Ontologies from semi-structured legal documents
   Antonio Penta, Antonino Mazzeo, Flora Amato, Antonio Picariello
4. Ontology Based and Context-Aware Hospital Nurse Call Optimization
   Femke Ongenae, Matthias Strobbe, Filip De Turck, Tom Dhaene, Piet Demeester, Piet Verhoeve
5. A Proposal for an Electromagnetic Ontology Framework
   Alessandra Esposito, Luciano Tarricone, Laura Vallone, Marco Zappatore

Additional Information

Reception at the Barcelona City Hall

When?	Tuesday 04th of March 18:50
Where?	Barcelona City Hall Plaça de Sant Jaume 1 Barcelona, 08002 Spain

Conference Dinner

When?	Wednesday 05th of March 20:00 (Guided tour before dinner: 19:15)
Where?	„La Miranda del Museu" Plaça de Pau Vila

WLAN

The Wireless LAN connection is available from 04th – 07th of March.

How to use it:

The only requirement to use the WLAN infrastructure is a Wi-Fi compatible device which supports the IEEE norm 802.11b or 802.11g.

The table below outlines the configuration required to connect to the WLAN.

802.1x access	Web access
SSID: eduroam	SSID: eduroam-web
Authentication: EAP-TTLS + PAP Encriptation: WPA + TKIP All wireless traffic is encrypted	HTTPS password is encrypted
User: xsf.convidat Password: Tinc7daigua	

Access methods:

a) Secure access (802.1x protocol) (SSID eduroam): www.eduroam.es

With this access method the connection will be fully encrypted. It needs the installation of a secure client program (EAP-TTLS, WPA/TKIP). This is the recommended option.

This is the eduroam option and permits access for users of other eduroam institutions with their accounts.

b) Web portal access (SSID eduroam-web):

This option permits easy access from all the operating systems, and no needs local configuration. For this reason is useful for sporadic users, social events, classrooms...

## Visits to the MareNostrum Supercomputing Center

ARES/CISIS organized free guided tours to the MareNostrum Supercomputing Center. The tours to MareNostrum will leave every day at 13:00. As groups must at least consist of 10 persons, we kindly ask you to sign up at the registration desk. If less than 10 persons sign up, we unfortunately have to cancel the visit of the specific day due to the guided tours conditions of the MareNostrum Supercomputing Center.

MAPS
© by Google

Palau Reial to Conferece Site Vertex

Avinguda Diagonal
Plaça dÉusebi Güell, 6
08034, Barcelona
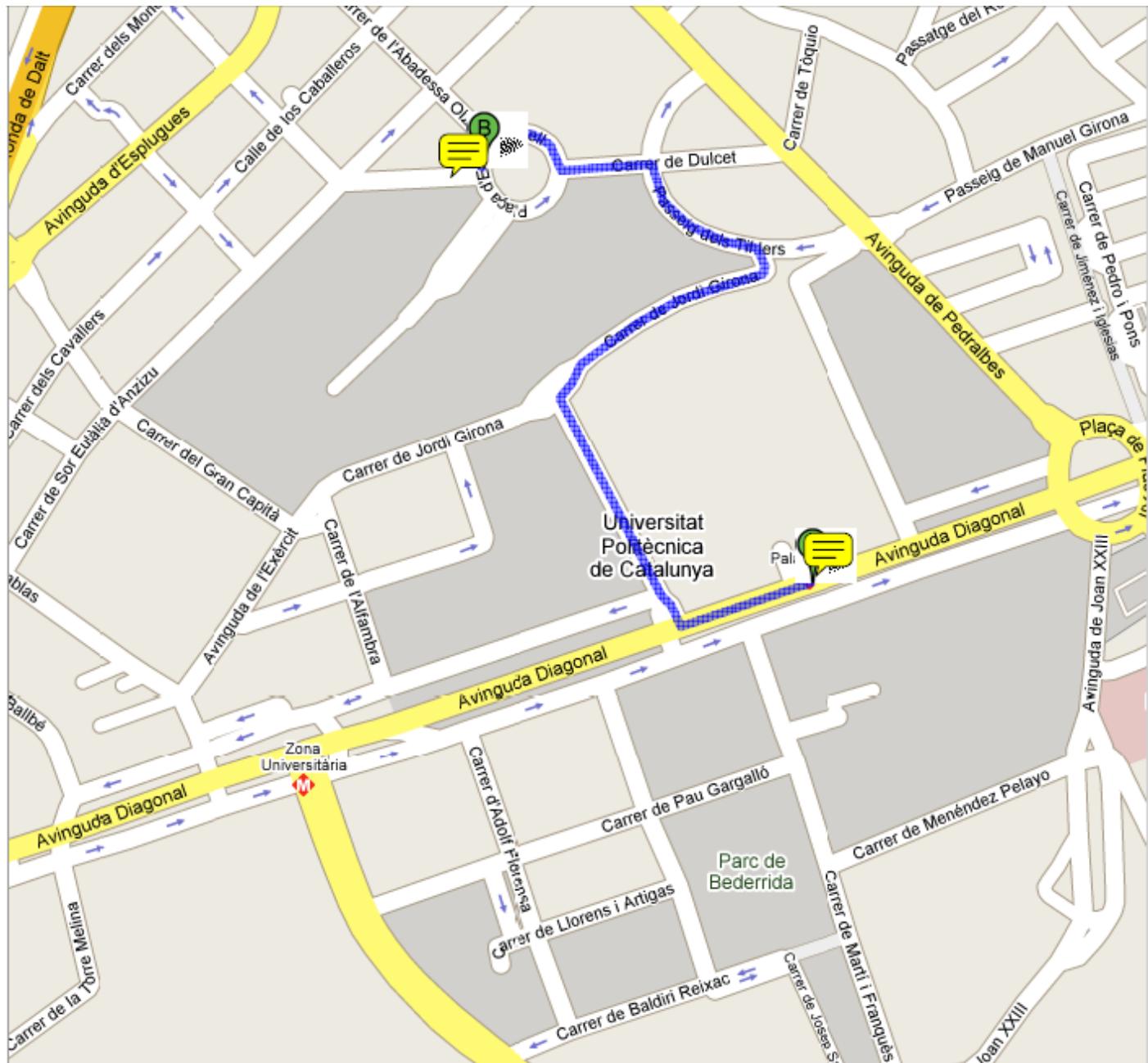
MAPS

Barceloneta Restaurant Miranda del Mar Plaça Pau Vila

Plaça de Pau Vila
Barceloneta
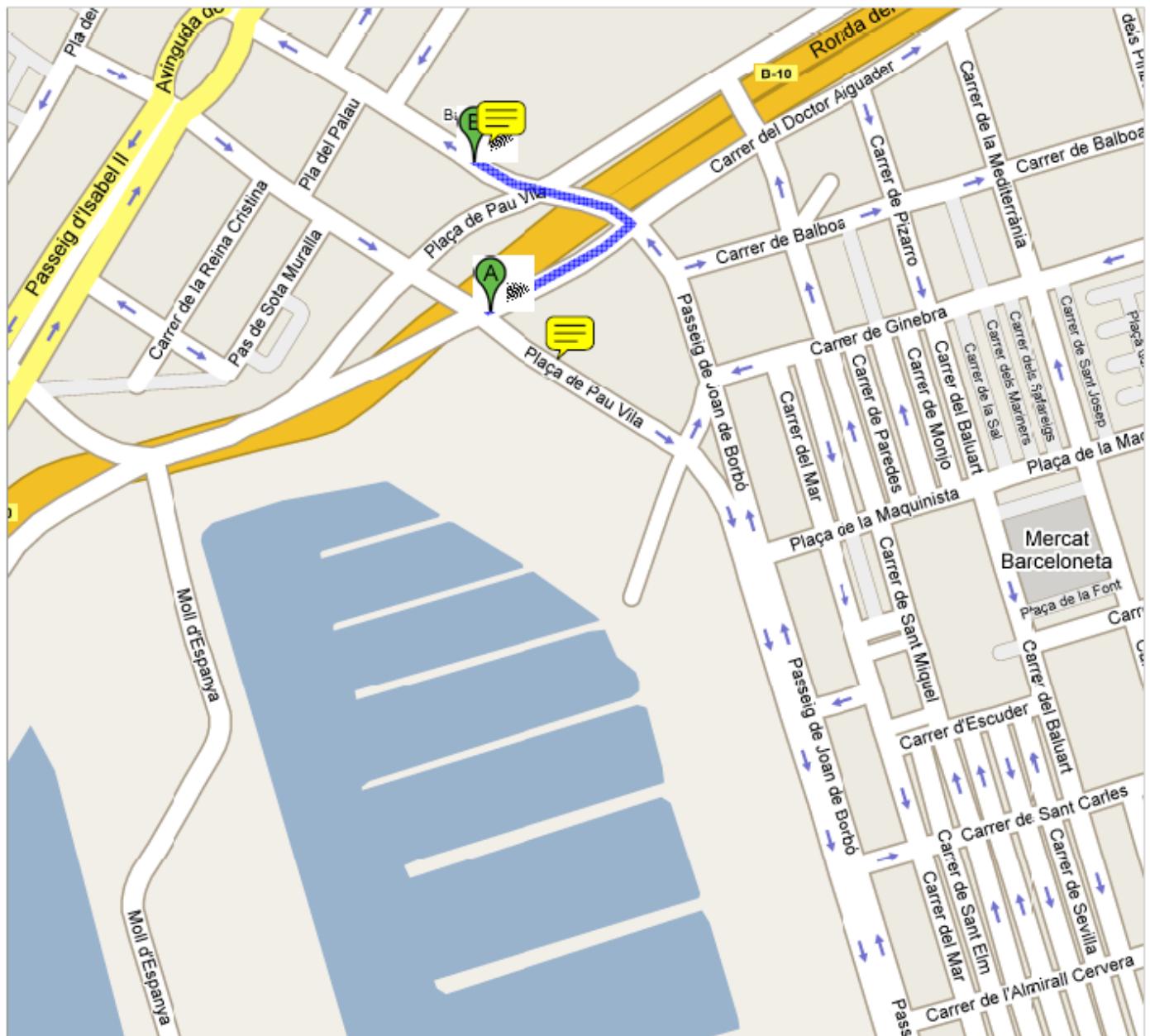
MAPS

Metro Map Barcelona

MAPS

Restaurant Guide

1. Restaurant Self-service Polimenú*La Cup: Bufet Libre
   C / Jordi Girona, 1-3 Telf: 934017107 / 932044020
2. Restaurant Notable *La Cup:
   C / Jordi Girona, 3*5 Telf: 934017107 / 932044020
3. Restaurant FIB
   UPC Campus Nord, Edf. B6
4. Restaurant Facultad de Caminos
   UPC Campus Nord, Edf. B2
5. Restaurant Vertex
   UPC Campus Nord, Edf. Vertex Telf: 932805126
6. Restaurant Nexus
   UPC Campus Nord, Edf. Nexus Telf: 932802223
7. Restaurant Poliesportiu UPC
   UPC Campus Nord, Edf. Poliesportiu
8. Restaurant Cantabria
   C / Sor Eulalia D'Anzizu, 45 Telf: 932039556
9. Restaurant Frankfurt Pedralbes *Jordi Girona
   C / Jordi Girona, 2*4 Telf: 932052717
10. Restaurant Rovell d'Ou: Cocina Catalana
    C / Jordi Girona, 6 Telf: 932057871
11. Restaurant Zure Etxea: Cocina Vasca
    C / Jordi Girona, 10 Telf: 932038390
12. Restaurant Julivert Meu: Cocina Catalana
    C / Jordi Girona, 12 Telf: 932041196 / 932057821
13. Restaurant Pati Blau: Cocina Catalana
    C / Jordi Girona, 14 Telf: 932042215
14. Restaurant Triton: Cocina Mediterranea
    C / Alfambra, 16 Telf: 932033085
15. Bar Restaurant La Tassa: Cocina de Mercado
    C /Alfambra, 15 Telf: 932048865
16. Restaurant Can Tornem-hi: Cocina Casera
    Av Exèrcit, 8*10 Telf: 932804814
17. Restaurant Paradís Temporada
    Pg Manuel Girona, 7 Telf: 932037637

Referential prices:

until 12 € p/p

between 20€ and 40 € p/p

more than 40€ p/p