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

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The International Workshop on Digital Forensics (WSDF’08)

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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-Escó

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-Rodriguez, Enrique Armendáriz-Iligo, José Ramón González de Mendivil, Francesc Daniel Muñoz-Escó

**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
   Bousta 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
   Natalia Bielova, Marco Dalla Torre, Nicola Dragoni, Ida Siahaan
   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
   Stéphane 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-ibility 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

   Cristina Satizábal, Jordi Forné, Rafael Martinez-Peláez
2. Performance of a strategy based packets forwarding in Ad Hoc networks
   Marcin Seredyński, Pascal Bouvry, Mieczysław Kropotek
3. AntTrust: A Novel Ant Routing Protocol for Wireless Ad-hoc Network Based on Trust Between Nodes
   Carlos Aguilar Melchor, Boussad Alt Salem, Philippe Gaborit, Karim Tamine
15:00 – 15:30   Coffee Break

15:30 – 17:30   Parallel Sessions

**Session B4: # Full: Models**
**Chair: Gerald Quirchmayr**

   Alfredo Pironti, Riccardo Sisto
   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-Esco
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, Günter 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 Schaadt
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 Willemsen, 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
   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  
Agustí 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 Cavadiní, Diego Alejandro Cheda  
Pravin Shinde, Priyanka Sharma, Srinivas Guntupalli  
3. Using Composition Policies to Manage Authentication and Authorization Patterns and Services  
Judith E. Y. Rossebø, Rolv Bræk  
Pakorn Leesuthipornchaisri, Naruemon Wattanapongsakorn, Chalermpol Charnsripinyo  

Session D7: # Short: Networks  
Chair: Octavian Catrina  

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-Garcia, 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 Reine

Session H7: # WAIS

1. Design of an FDB based Intra-domain Packet Traceback System
   Hiroaki Hazeyama, Yoshiohde Matsumoto and Youki Kadobayashi
   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, Erlan 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
   Mehdii 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-Olav 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
Réné 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

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 Leangsukson, 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-Véliz, 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
Chair: Benjamin Turnbull

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
1. Adaptive Voting Algorithms for Reliable Dissemination of Data in Sensor Networks  
Kalappa Ravindran, Kevin Kwiat and Mohammad Rabby
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  
Nasruallah 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-Escot
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 Alekisy 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.

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A Min Tjoa, Vienna University of Technology, Austria
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Second International Workshop on P2P, Parallel, Grid and Internet Computing (3PGIC-2008)

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Fatos Xhafa, Polytechnic University of Catalonia, Spain

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International Workshop on Ontology Alignment and Visualization - OnAV'08

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Darijus Strasunskas, NTNU, Norway
Merwyn G. Taylor, MITRE Corp., USA
Csaba Veres, DSTO, Australia
Anna V. Zhdanova, ftw., Austria
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 Durrese, Akio Koyama

2. Evaluation of the Reliable Data Transmission Protocol in Wireless Sensor-Actuator Networks
Kiyohiro Morita, Keiji Ozaki, Tomoya Enokido, Makoto Takizawa

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 Bernardas, 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

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
Allexier 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, Statthes 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
   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
   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
   Shangliang JIANG, Stuart CLEMENTS
2. The Secure Three-Tier Architecture pattern
   Eduardo B. Fernandez, Mihai Fonoage, Michael VanHilist, Mirela Marta
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 Lanzengerger, 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 Kotisis, 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. ‘Ponit Paper’ Processing ontology alignments with SPARQL  
Jérôme Euzenat, François Scharffe, Axel Polleres

Yoshihiro Shimoji, Sachio Hirokawa

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 Abulló, 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, Sotaro 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 Infanteino

Silvia Blasco, J. David Uceda, Mar Elena, J. Manuel Quero

2. Testing and evaluation of microarray image analysis software  
Ignazio Infanteino, 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 Andriarisona
   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
   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

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Session K12: # ASHEs-S3
Chair: Rachid Anane

1. HGRID: An Adaptive Grid Resource Discovery
   Antonia Gallardo, Luis Díaz 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
   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 Pilana

1. Embla -- Data Dependence Profiling for Parallel Programming
   Kari-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 through 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 Sörding, Åshild Grenstad 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

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

<table>
<thead>
<tr>
<th>When?</th>
<th>Tuesday 04th of March 18:50</th>
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<tbody>
<tr>
<td>Where?</td>
<td>Barcelona City Hall Plaça de Sant Jaume 1 Barcelona, 08002 Spain</td>
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Conference Dinner

<table>
<thead>
<tr>
<th>When?</th>
<th>Wednesday 05th of March 20:00</th>
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<tbody>
<tr>
<td></td>
<td>(Guided tour before dinner: 19:15)</td>
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<tr>
<td>Where?</td>
<td>„La Miranda del Museu“ Plaça de Pau Vila</td>
</tr>
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</table>

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.

<table>
<thead>
<tr>
<th>802.1x access</th>
<th>Web access</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSID: eduroam</td>
<td>SSID: eduroam-web</td>
</tr>
<tr>
<td>Authentication: EAP-TTLS + PAP</td>
<td>HTTPS</td>
</tr>
<tr>
<td>Encryption: WPA + TKIP</td>
<td>password is encrypted</td>
</tr>
<tr>
<td>All wireless traffic is encrypted</td>
<td>User: xsf.convidat</td>
</tr>
<tr>
<td></td>
<td>Password: Tinc7daigua</td>
</tr>
</tbody>
</table>

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.
Palau Reial to Conference Site Vertex

Avinguda Diagonal
Plaça d'Eusebi Güell, 6
08034, Barcelona
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, Edif. B6

4. Restaurant Facultad de Caminos
   UPC Campus Nord, Edf. B2

5. Restaurant Vertex
   UPC Campus Nord, Edif. Vertex Telf: 932805126

6. Restaurant Nexus
   UPC Campus Nord, Edif. Nexus Telf: 932802223

7. Restaurant Poliesportiu UPC
   UPC Campus Nord, Edif. Poliesportiu

8. Restaurant Cantabria
   C / Sor Eulàlia D’anzihu, 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: 932057877

11. Restaurant Zure Etxeak: 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 / Alfambrà, 16 Telf: 932033085

15. Bar Restaurant La Tassa: Cocina de Mercado
    C / Alfambrà, 15 Telf: 932048865

16. Restaurant Can Tornem-hi: Cocina Casera
    Av Exèrcit, 8*10 Telf: 932804814

17. Restaurant Paradis Temporada
    Pg Manuel Girona, 7 Telf: 932037637

Referential prices:

- until 12 €/p
- between 20€ and 40 €/p
- more than 40€/p

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