

Advance Programme Summary

Tuesday, May 26, 2009

		C7	C9	JSB	C8	C30	D42	E59	F21
Opening	9:30 - 10:00	AINA 2009 Opening – Great Hall							
Keynote	10:00 - 11:00	AINA 2009 Keynote – Great Hall							
Tea/Coffee	11:00 - 11:30	Tea/Coffee – Small Hall							
Session	11:30 - 13:00	AINA (1A)	AINA (1B)	AINA (1C)	WAMIS-1	AASNET-1	SOCNE-1	QuEST-1	FINA-1
Lunch	13:00 - 14:00	Lunch – Small Hall							
Session	14:00 - 15:30	AINA (2A)	AINA (2B)	AINA (2C)	WAMIS-2	AASNET-2	SOCNE-2	QuEST-2	FINA-2
Tea/Coffee	15:30 - 16:00	Tea/Coffee – Small Hall							
Session	16:00 - 18:00	AINA (3A)	AINA (3B)	AINA (3C)	WAMIS-3	AASNET-3	SOCNE-3	QuEST-3	FINA-3
Reception	18:30 - 21:30	Reception - Atrium							

Wednesday, May 27, 2009

		C7	C9	JSB	C8	C30	D42	E59	F21
Keynote	09:30 - 10:30	AINA 2009 Keynote – Great Hall							
Tea/Coffee	10:30 - 11:00	Tea/Coffee – Small Hall							
Session	11:00 - 13:00	AINA (4A)	AINA (4B)	AINA (4C)	PAEWN-1	WuNet-1	BioCom-1	IWDENS-1	FINA-4
Lunch	13:00 - 14:00	Lunch – Small Hall							
Keynote	14:00 - 15:00	AINA 2009 Keynote – Great Hall							
Tea/Coffee	15:00 - 15:30	Tea/Coffee – Small Hall							
Session	15:30 - 17:30	AINA (5A)	AINA (5B)	AINA (5C)	PAEWN-2	WuNet-2	BioCom-2	IWDENS-2	FINA-5
Dinner	18:30 - 21:30	Dinner – National Media Museum							

Thursday, May 28, 2009

		C7	C9	JSB	C8	C30	D42	E59	F21
Session	9:30 - 11:00	AINA (6A)	AINA (6B)	AINA (6C)	SMPE-1	TeNAS-1	INVITE	SRIA	FINA-6
Tea/Coffee	11:00 - 11:30	Tea/Coffee – Small Hall							
Session	11:30 - 13:00	AINA (7A)	AINA (7B)	AINA (7C)	SMPE-2	TeNAS-2	MAW-1	HWISE-1	FINA-7
Lunch	13:00 - 14:00	Lunch – Small Hall							
Session	14:00 - 15:30	AINA (8A)	AINA (8B)	AINA (8C)	BLSMC-1	DMWPC-1	MAW-2	HWISE-2	FINA-8
Tea/Coffee	15:30 - 16:00	Tea/Coffee – Small Hall							
Session	16:00 - 18:00	AINA (9A)	AINA (9B)	AINA (9C)	BLSMC-2	DMWPC-2	MAW-3	HWISE-3	FINA-9
Banquet	18:30 - 22:00	Banquet – Anam Restaurant							

Friday, May 29, 2009

		C7	C9	JSB	C8	C30	D42	E59	F21
Session	9:30 - 11:00	AINA (10A)	AINA (10B)	AINA (10C)	WON-1	MAW-4		HWISE-4	FINA-10
Tea/Coffee	11:00 - 11:30	Tea/Coffee – Small Hall							
Session	11:30 - 13:00	AINA (11A)	AINA (11B)	AINA (11C)	WON-2	MAW-5			FINA-11
Lunch	13:00 - 14:00	Lunch – Small Hall							

AINA 2009 Keynote I

Improving QoS through Network Real-Time Measurement and Self-Adaption

Erol Gelenbe
*Imperial College
London, United Kingdom*

Biography

Prof. Erol Gelenbe PhD DSc FIEEE FACM FIET is a Member of the French National Academy of Engineering and of the Turkish Academy of Sciences. He holds the “Dennis Gabor Chair” and is Head of the Intelligent Systems and Networks Group in the Electrical and Electronic Engineering Department at Imperial College, where he conducts research on computer systems and networks. Author of over 140 journal papers, and several books published in English, French, Japanese and Korean, he has won numerous major international awards and honours for his work, including the ACM SIGMETRICS Life-Time Achievement Award, the Honoris Causa Doctorate from three universities: Liege in Belgium (2006), Bogazici in Istanbul (2004) and Rome in Italy (1996). His recent work includes path finding algorithms in noisy and uncertain conditions, the use of neural networks to control routing in computer networks, the analysis of decision making based on market based techniques, and modeling problems from the basic sciences including neural networks, gene regulatory networks, and models of chemical reactions. His research is currently funded by EPSRC and MoD with significant industry participation (BT, BAE Systems and QinetiQ), and by the EU FP7 programme. Appointed to his first chair at the age of 27 at the University of Liège in Belgium, he served as a research director at INRIA (France), with successive professorial posts at the University of Paris, Duke University where he was Department Head, and the University of Central Florida where he held a distinguished chair and was Associate Dean of Engineering. He is the Editor in Chief of The Computer Journal, and editor of the Proc .of the Royal Society A, Performance Evaluation, and Acta Informatica. He has graduated over 50 PhDs.

AINA 2009 Keynote II

Web Data Extraction for Business Applications and for Interfacing Virtual Worlds with the Real World

Georg Gottlob
*Oxford University
Oxford, United Kingdom*

Abstract:

This talk starts with an introduction on Web data extraction and a brief survey of the Lixto system. We then show how this system is currently used for business intelligence and other business applications. The second part of the talk illustrates how Web data extraction can be used for establishing channels for between virtual worlds and the real world. Virtual worlds such as Second Life are closed environments that are purposely isolated from the real world and, in particular, from the data and information space provided by the World Wide Web. There is a rising need, however, to communicate and exchange data between virtual environments and the outside world, both for commercial applications and for private convenience. Companies, for example, may want to display price lists, corporate news, and other changing information inside Second Life, and thus need a method for continually transferring data from their web site into Second Life. In this paper we tackle the problems and difficulties of data exchange between virtual worlds and the real world. We compare different fundamental approaches of realizing communication channels and outline a general method for designing interfaces between virtual worlds and real-world data spaces. We discuss implementation issues and demonstrate the effectiveness of our approach with a number of successful prototype implementations.

Biography:

Georg Gottlob is a Professor of Computing Science at the Oxford University Computing Laboratory, Oxford, UK. His research interests are database theory (in particular, query languages), Web information processing, constraint satisfaction problems, non-monotonic reasoning, finite model theory, and computational complexity. He is a co-founder of Lixto Corporation. Prof Gottlob got his Engineer and Ph.D. degrees in Computer Science from TU Vienna, Austria in 1979 and 1981, respectively. Before he moved to Oxford in 2006, he was a Full Professor of Computer Science at TU Vienna (since 1988). Prof Gottlob has received the Wittgenstein Award from the Austrian National Science Fund, is an ECCAI Fellow, and a member of the Austrian Academy of Sciences, the German Academy of Sciences Leopoldina, and the European Academy of Sciences *Academia Europaea* in London. He chaired the Program Committees of IJCAI 2003 and ACM PODS 2000, was the Editor in Chief of the Journal *Artificial Intelligence Communications*, and is currently a member of the editorial boards of several other journals. Prof Gottlob is an ISI highly cited researcher (<http://hcr3.isiknowledge.com/home.cgi>).

AINA 2009 Keynote III

Location-aware Authentication and Authorization - Concepts and Issues

Elisa Bertino
*Purdue University
West Lafayette, IN, USA*

Abstract:

The paper first discusses motivations why taking into account location information in authentication and access control is important. The paper then surveys current approaches to location-aware authentication, including the notion of context-based flexible authentication policies, and to location-aware access control, with focus on the GEO-RBAC model. Throughout the discussion, the paper identifies open research directions.

Biography:

Elisa Bertino is professor of Computer Science at Purdue University and serves as Research Director of the Center for Education and Research in Information Assurance and Security (CERIAS). Previously she was a faculty member at Department of Computer Science and Communication of the University of Milan where she was the Department Head and Director of the DB&SEC laboratory. She has been a visiting researcher at the IBM Research Laboratory (now Almaden) in San Jose, at the Microelectronics and Computer Technology Corporation, at Rutgers University, at Telcordia Technologies.

Her main research interests include security, privacy, digital identity management systems, database systems, distributed systems, multimedia systems. In those areas, Prof. Bertino has published more than 300 papers in all major refereed journals, and in proceedings of international conferences and symposia. She is a co-author of the books "Object-Oriented Database Systems - Concepts and Architectures" 1993 (Addison-Wesley International Publ.), "Indexing Techniques for Advanced Database Systems" 1997 (Kluwer Academic Publishers), "Intelligent Database Systems" 2001 (Addison-Wesley International Publ.), and "Security for Web Services and Service Oriented Architectures" Springer (to appear in Fall 2009). She has been a co-editor in chief of the Very Large Database Systems (VLDB) Journal from 2001 to 2007. She serves, or has served, on the editorial boards of several scientific journals, including IEEE Internet Computing, IEEE Security & Privacy, ACM Transactions on Information and System Security, ACM Transactions on Web, Acta Informatica, the Parallel and Distributed Database Journal.

Elisa Bertino is a Fellow member of IEEE and a Fellow member of ACM and has been named a Golden Core Member for her service to the IEEE Computer Society. She received the 2002 IEEE Computer Society Technical Achievement Award for "For outstanding contributions to database systems and database security and advanced data management systems" and the 2005 IEEE Computer Society Tsutomu Kanai Award "For pioneering and innovative research contributions to secure distributed systems".

Tuesday, May 26, 2009

09:30 - 10:00

AINA 2009 Opening Ceremony
Room: Great Hall

10:00 - 11:00

Keynote I

Erol Gelenbe (Imperial College)
Improving QoS through Network Real-Time Measurement and Self-Adaption
Session Chair: David Duce (Oxford Brookes University)
Room: Great Hall

11:00 - 11:30

Tea/Coffee

11:30 - 13:00

Technical Sessions

AINA Session 1A: Performance Modelling and Evaluation 1

Session Chair: William Knottenbelt, Imperial College
Room: C7

- Evaluating the Performance of Network Protocol Processing on Multi-core Systems
Matthew Faulkner, Andrew Brampton and Steve Pink
- Modeling Web Request and Session Level Arrivals
Xuan Wang and Katerina Goseva-Popstojanova
- Predictive Simulation of HPC Applications
Simon Hammond, Jonathan Smith, Gihan Mudalige and Stephen Jarvis
- Modelling Network Performance with a Spatial Stochastic Process Algebra
Vashti Galpin

AINA Session 1B: Routing and Broadcast Mechanisms

Session Chair: Leonard Barolli, Fukuoka Institute of Technology
Room: C9

- An Evaluation of Routing Reliability in Non-Collaborative Opportunistic Networks
Ling-Jyh Chen, Che-Liang Chiou and Yi-Chao Chen
- Parameterised Gradient Based Routing (PGBR) for Future Internet
Sasitharan Balasubramaniam, Dmitri Botvich, Julien Mineraud, and William Donnelly
- A New Counting Scheme for Multicast Broadcast Service with WiBro
Nak Beom Sung, Kyung Tae Kim, Sun Sik Park, and Hee Yong Youn
- Analyzing the Hold Time Schemes to Limit the Routing Table Calculations in OSPF Protocol
M. Goyal, M. Soperi, H. Hosseini, K. Trivedi, A. Shaikh and G. Choudhury

AINA Session 1C: Distributed and Parallel Systems

Session Chair: Shibata Yoshitaka, Iwate Prefectural University
Room: JSB

- Real-Time Task Assignment in Heterogeneous Distributed Systems with Rechargeable Batteries
Jian Lin, Albert Cheng and Rashmi Kumar
- Distributed Secure Virtual File System Using Hysteresis Signatures
Shin Tezuka, Hiroko Tomori, Ryuya Uda and Kenichi Okada
- Quarc: a High-Efficiency Network on-Chip Architecture
Mahmoud Moadeli, Partha Maji and Wim Vanderbauwhede
- Fair Scheduling with Multiple Gateways in Wireless Mesh Networks
Jason Ernst and Mieso Denko

WAMIS Session 1: Context-Aware Mobile and Pervasive Systems

Session Chair: Ghita Kouadri Mostefaoui, Oxford University
Room: C8

- Enabling Mobility Between Context-Aware Smart Spaces
Gearoid Hynes, Vinny Reynolds, Manfred Hauswirth
- Context-Aware SmartSpace: Reference Model
Alexander Smirnov, Alexey Kashevnik, Nikolay Shilov, Sergey Boldyrev, Sergey Balandin, and Ian Oliver
- Quality Aware Context Information Aggregation System for Pervasive Environments
Atif Manzoor, Hong-Linh Truong, Schahram Dustdar
- Hybrid Context Matchmaking for Fast Context-aware Computing
Eun Sang Noh, Hyun Ko, Chang Hoon Lyu, and Hee Yong Youn

AASNET Session 1: Protocols in Ad hoc and Wireless Sensor Networks

Session Chair: Elhadi Shakshuki, Acadia University
Room: C30

- Benchmarking Latency Effects on Mobility Tracking in WSNs
Richard Tynan, M.J. O'Grady, G.M.P. O'Hare, Conor Muldoon
- A Range-Only Tracking Algorithm for Wireless Sensor Networks
Evangelos B. Mazomenos, Jeffrey S. Reeve, Neil M. White
- LIFT: An Efficient Cross-layer Service Discovery Protocol in MANET
Miguel Wister Ovando, Dante Arias Torres
- Prioritized Buffer Management Policy for Wireless Sensor Nodes
Weihuan Shu, Kumar Padmanabh, Puneet Gupta

SOCNE Session 1: SOA & Embedded Systems

Session Chair: Frank Golatowski, University of Rostock
Room: D42

- Location-Transparent Integration of Distributed OSGi Frameworks and Web Services
Christoph Fiehe, Anna Litvina, Ingo Lück, Oliver Dohndorf, Jens Kattwinkel, Franz-Josef Stewing, Jan Krüger, Heiko Krumm
- A Service-Oriented Platform for Pervasive Awareness Systems
Christos Goumopoulos, Achilles Kameas, Eric Berg, Ioannis Calemis
- Services to the Field: An Approach for Resource Constrained Sensor/Actor Networks
Christian Buckl, Stephan Sommer, Andreas Scholz, Alois Knoll, Alfons Kemper, Jörg Heuer, Anton Schmitt
- Differences and Commonalities of Service-Oriented Device Architectures, Wireless Sensor Networks and Networks-On-Chip
Guido Moritz, Claas Cornelius, Frank Golatowski, Dirk Timmermann, Regina Stoll

QuEST Session 1: Performance

Session Chair: Kin Fun Li, University of Victoria
Room: E59

- Improving the Scalability of Communication-Aware Task Mapping Techniques
Raúl Soriano, Juan M. Orduña
- Quantitative Evaluation of Software Quality Metrics in Open-Source Projects
Henrike Barkmann, Rüdiger Lincke, Welf Löwe
- Modeling Multiprocessor Cache Protocol Impact on MPI Performance
Ghassan Chehaibar, Meriem Zidouni, Radu Mateescu
- Quantifying Artifacts of Virtualization: A Framework for Mirco-Benchmarks
Chris Matthews, Yvonne Coady, Stephen Neville

FINA Session 1: Agents and Intelligent Computing

Session Chair: Takuo Nakashima, Kyushu Tokai University

Room: F21

- Fuzzy Communication Leading to Equilibrium through Possibility Messages
Takashi Matsuhisa
- An Integrated Information Sharing Structure of Resuscitation Data
Kari Anne Thorsen, Trygve Eftestøl, Chunming Rong and Petter Andreas Steen.
- Real-time Minute Change Detection on GPU for Cellular and Remote Sensor Imaging
Sinan Kockara, Tansel Halic and Coskun Bayrak
- Preference Ordering in Agenda Based Multi-Issue Negotiation for Service Level Agreement
Fahmida Abedin, Kuo-Ming Chao, Nick Godwin, Hisbel Arochena

13:00 - 14:00

Lunch

14:00 - 15:30

Technical Sessions

AINA Session 2A: Service Oriented Architecture

Session Chair: Zakaria Maamar, Zayed University

Room: C7

- Business Compliance Governance in Service-Oriented Architectures
Florian Daniel, Fabio Casati, Vincenzo D'Andrea, Emmanuel Mulo, Uwe Zdun, Schahram Dustdar, Steve Strauch, David Schumm, Frank Leymann, Samir Sebahi, Fabien de Marchi, Mohand-Said Hacid
- DAVO: A Domain-Adaptable, Visual BPEL4WS Orchestrator
Tim Dörnemann, Markus Mathes, Roland Schwarzkopf, Ernst Juhnke and Bernd Freisleben
- A Generic Database Web Service for the Venice Service Grid
Michael Koch, Markus Hillenbrand and Paul Müller
- Trust Requirements in Identity Federation Topologies
Uwe Kylau, Ivonne Thomas, Michael Menzel and Christoph Meinel

AINA Session 2B: Agents and Trust Management

Session Chair: Tomoya Enokido, Risho University

Room: C9

- Combined On-line and Off-line Trust Mechanism for Agent Computing
Babak Khosravifar, Jamal Bentahar, Maziar Gomrokchi and Philippe Thiran
- A Hybrid Layered Multiagent Architecture with Low Cost and Low Response Time Communication Protocol for Network Intrusion Detection Systems
Varsha Sainani and Mei-Ling Shyu
- An Ontology-Based Architecture for Federated Identity Management
Farah Layouni and Yann Pollet
- Trust Management in Emergency Networks
Arjan Duresi, Mimoza Duresi, Vamsi Paruchuri and Leonard Barolli

AINA Session 2C: Video Communication Technology

Session Chair: Rubem Pereira, Liverpool John Moores University

Room: JSB

- An Efficient FEC Allocation Algorithm for Unequal Error Protection of Wireless Video Transmission
Yoong Choon Chang, Sze Wei Lee, and Ryoichi Komiya
- Adaptive FEC Algorithm Based on Prediction of Video Quality and Bandwidth Utilization Ratio
Jiao Feng, Chi Xuefen, Peng Li, Wang Yining, and Lin Guan
- Content-Adaptive Robust H.264/SVC Video Communications over 802.11e Networks
Dario Gallucci, Attilio Fiandrotti, Enrico Masala and Juan Carlos De Martin
- Heterogeneous Error protection of H.264/AVC video Using Hierarchical 16-QAM
Ahmed Abdurrahman and Michael E. Woodward

WAMIS Session 2: Agents and Services Computing

Session Chair: Wenny Rahayu, La Trobe University
Room: C8

- Trust-Based Cooperative Action Control in Multi-agent Systems for Network Management
Atsushi Terauchi, Osamu Akashi
- Risk-Aware SLA Brokering using WS-Agreement
James Padgett, Karim Djemame, Iain Gourlay, Django Armstrong
- Discovering Grid Resources and Deploying Grid Services Using Peer-to-Peer Technologies
Kay Dörnemann and Bernd Freisleben
- Social Network-Based Trust for Agent-Based Services
Jamal Bentahar, Babak Khosravifar and Maziar Gomrokchi

AASNET Session 2: Application of Sensor Networks

Session Chair: Tarek Sheltami, King Fahd Univ. of Petroleum and Minerals
Room: C30

- Automatic Monitoring for Workers Healthcare in Tropical Climates
Pablo Pancardo, Jorge A. Pardo, and Juan C. Dueñas
- Analysis of Handoff Delay Components for Mobile IP-Based 3GPP UMTS/WLAN Interworking Architecture
Abdul-Aziz Al-Helali, Ashraf Mahmoud, Talal Al-Kharobi, Tarek Sheltami
- Impact of Power Control in Wireless Sensor Networks Powered by Ambient Energy Harvesting (WSN-HEAP) for Railroad Health Monitoring
Hwee-Pink Tan, Pius W.Q. Lee, Winston K.G. Seah, and Zhi Ang Eu

SOCNE Session 2: Real-Time Services and Verification

Session Chair: Stephan Flake, Orga Systems
Room: D42

- Mapping OWL-S Processes to Multi Agent Systems: A Verification Oriented Approach
Alessio Lomuscio, Monika Solanki
- Time-Predictable Reconfiguration with Contract-Based Resource Management
Marisol García-Valls, Alejandro Alonso-Muñoz, Juan A. de la Puente
- A Specification and Tool for the Configuration of REST Applications
Guilherme Gustavo Ramos Gomes and Paulo Nazareno Maia Sampaio
- Towards Distributed Composition of Real-Time Service-Based Applications
Iria Estevez-Ayres, Marisol García-Valls, Pablo Basanta-Val

QuEST Session 2: System-Level Behaviour

Session Chair: Gert Pfeifer, TU Dresden
Room: E59

- Understanding Behavioural Tradeoffs In Large-Scale SensorNet Design
Jonathan Tate, Iain Bate
- The Rational for Developing Larger-scale 1000+ Machine Emulation-based Research Test Beds
Stephen Neville, Kin Fun Li
- A Distributed Application-Level IT System Workload Generator
Chris Mueller, Michael Horie, Stephen W. Neville

FINA Session 2: Security, Privacy, and Trust

Session Chair: Minoru Uehara, Toyo University
Room: F21

- A Semantic Approach for Trust Information Exchange in Federation Systems
Zhengping Wu
- Combating Typo-Squatting for Safer Browsing
Guanchen Chen, Matthew Johnson, Pavan Marupally, Naveen Singireddy, Xin Yin and Vamsi Paruchuri
- Web Site Management System through Private Information Extraction
Myung Sil Choi, Yong Soo Park and Kwang Seon Ahn

15:30 - 16:00 **Tea/Coffee**

16:00 - 18:00 **Technical Sessions**

AINA Session 3A: Communication Technology and Protocols 1

Session Chair: Hiroshi Shigeno, Keio University
Room: C7

- Design of Q-ary Irregular Repeat-Accumulate codes
Wei Lin, Baoming Bai, Ying Li and Xiao Ma
- Design of Quasi-Cyclic LDPC Codes Based on Euclidean Geometries
Yuan-Hua Liu, Xin-Mei Wang, and Jian-Hua Ma
- Multi-user MIMO Broadcast System Grouping Strategy Based on Particle Swarm Optimization
Hei Yong-qiang, LiXiao-hui, YiKe-chu, and Li Wen-tao
- ANFIS Based AQM Controller for Congestion Control
Rafe Alasem, Alamgir Hossain, Irfan Awan, and Hussein Mansour

AINA Session 3B: Autonomic and Advanced Network Systems

Session Chair: Markus Aleksy, ABB Corporate Research Center
Room: C9

- Probabilistic Network Fault-Diagnosis using Cross-Layer Observations
Anders Nickelsen, Jesper Grønbaek, Thibault Renier and Hans-Peter Schwefel
- An Overlay Application-Layer Multicast Infrastructure
Daniel Uchôa, Samuel Kopp, Hécio Pimentel, Reinaldo Matushima and Regina Silveira
- A Measurement Study on Peer Behaviors for a Pure P2P Network
Satoshi Ohzahata and Konosuke Kawashima
- N-nary RAID: 3-resilient RAID Based on an N-nary Number
Katsuyoshi Matsumoto and Minoru Uehara

AINA Session 3C: Internet Computing and Applications

Session Chair: Muhammad Younas, Oxford Brookes University
Room: JSB

- Evaluation and Optimization of the Registrar Redundancy Handling in Reliable Server Pooling Systems
Xing Zhou, Thomas Dreibholz, Fu Fa, Wencai Du, and Erwin Paul Rathgeb
- A Pipelined IP Forwarding Engine with Fast Update
Yeim-Kuan Chang, Yen-Cheng Liu and Fang-Chen Kuo
- DINCast: Optimizing Application-Level Shared-Tree Multicast
Huaqun Guo, Lek Heng Ngoh, W.C. Wong, Ping Yang, and Nazreen Beevi
- A Fast and Memory Efficient Dynamic IP Lookup Algorithm Based on B Tree
Yeim-Kuan Chang and Yung Chieh Lin

WAMIS Session 3: E-Business Systems and XML Technologies

Session Chair: Jamal Bentahar, Concordia University

Room: C8

- A Cost Model for Efficient Business Object Replication
Michael Ameling, Bernhard Wolf, José Enrique Armendáriz-Íñigo and Alexander Schill
- Investigating Interactions Between Clients And Server in the Performance Analysis of Ecommerce Systems
D.R.W. Holton, I.U. Awan, M. Younas
- Schema Mediation for Heterogeneous XML Schema Sources
Hong-Quang Nguyen, Wenny Rahayu, Kinh Nguyen and David Taniar
- XML Language-Oriented Processing with XLOP
Antonio Sarasa-Cabezuelo, Bryan Temprado-Battad, Jose-Luis Sierra, Alfredo Fernandez-Valmayor

AASNET Session 3: Energy-Aware, and Routing Protocol in Ad Hoc Sensor Networks

Session Chair: Tarek Sheltami, King Fahd Univ. of Petroleum and Minerals

Room: C30

- A Dynamic Size Distributed Program Image Cache for Wireless Sensor Networks
Joshua Ellul, Kirk Martinez, David De Roure
- Triangular Power Saving Routing Protocol with Power Balance in Mobile Ad hoc Networks
Yi-Chao Wu, Chiu-Ching Tuan, Po-Chun Chen
- Performance Evaluation of Max Flow Multipath Protocol with Congestion Awareness
Ahmed Redha Mahlous, Brahim Chaourar, Mahmud Mansour

SOCNE Session 3: Service-Oriented Architectures and Frameworks

Session Chair: Michael Ditze, University of Paderborn

Room: D42

- Service Creation Environment for Business-to-Business Services
Rolf Lasch, Björn Ricks, Ralf Tönjes
- A SOA-based Collaborative Environment for Clinical Trials on Neglected Diseases
M. Beatriz F. Toledo, Olga Nabuco, Marcos Rodrigues, Diego Garcia, Miriam A.M. Capretz, Marcelo Fantinato, Itana Gimenes, Rodrigo Bonacin, Ana Guerra, Tarcísio da Rocha, Laura Viana
- Towards a Policy and Charging Control Architecture for Online Charging
Frank Bormann, André Braun, Stephan Flake, and Jürgen Tacke
- A Service Oriented Platform for Health Services and Ambient Assisted Living
Andreas Hein, Marco Eichelberg, Oliver Nee, Arne Schulz, Axel Helmer, Myriam Lipprandt
- Concurrency Programming Models in Mobile Real-Time Platforms
Marisol García Valls, Pablo Basanta Val, and Iria Estévez Ayres

QuEST Session 3: Network Traffic and Topology

Session Chair: Stephen Neville, University of Victoria

Room: E59

- TopDNS: Experiences Building Internet-based Topologies with GNP
Gert Pfeifer, Christof Fetzer
- SSL-based Lightweight Security of IP-based Wireless Sensor Networks
Wooyoung Jung, Sungmin Hong, Minkeun Ha, Young-Joo Kim, and Daeyoung Kim
- A Graph-Theoretic Model of Routing Hierarchies
Yvonne Lai, Wai Sum Lai
- Manipulation of Network Traffic Traces for Security Evaluation
Mohammed Gadelrab, Anas Abou El Kalam, Yves Deswarte

FINA Session 3: Network Computing and Service Oriented Applications

Session Chair: Fatos Xhafa, Technical University of Catalonia

Room: F21

- A New Approach to Model Web Services' Behaviors Based on Synchronization
Zakaria Maamar, Quan Z. Sheng, Hamdi Yahyaoui, Jamal Bentahar and Khouloud Boukadi
- Matching Model for Semantic Web Services Discovery
Kamran Zamanifar, Alireza Zohali and Naser Nematbakhsh
- The Network Service Platform for Real-World Data
Yuka Kato, Masahiko Narita and Chuzo Akiguchi
- Efficient Heuristic for Multicasting in Arbitrary Networks
Hovhannes Harutyunyan, Rahul Katragadda and Calin Dan Morosan

18:30 - 21:30

Reception

Wednesday, May 27, 2009

09:30 - 10:30

Keynote II

Georg Gottlob (Oxford University)

Web Data Extraction for Business Applications and for Interfacing Virtual Worlds with the Real World

Session Chair: Peter Harrison (Imperial College)

Room: Great Hall

10:30 - 11:00

Tea/Coffee

11:00 - 13:00

Technical Sessions

AINA Session 4A: Ad Hoc and Sensor Networks

Session Chair: Mieso Denko, University of Guelph

Room: C7

- Optimized Broadcast in a Geographical Area of Wireless Ad Hoc and Sensor Networks
Ibrahim Amadou and Pascale Minet
- A Resource Discovery Scheme for Large Scale Ad Hoc Networks Using a Hypercube-Based Backbone
Lyes Dekar and Hamamache Kheddouci
- Energy Efficiency: Optimal Transmission Range with Topology Management in Rectangular Ad-hoc Wireless Networks
Wei Feng, Hamada Alshaer and Jaafar.M.H Elmirghani
- Performance Analysis of OLSR and BATMAN Protocols Considering Link Quality Parameter
Leonard Barolli, Makoto Ikeda, Giuseppe De Marco, Arjan Durresti and Fatos Xhafa

AINA Session 4B: Performance Modelling and Evaluation 2

Session Chair: Stephen Jarvis, University of Warwick

Room: C9

- A Communication Model of Broadcast in Wormhole-Routed Networks on-Chip
Mahmoud Moadeli and Wim Vanderbauwhede
- An Experimental Evaluation of Sender-Side TCP Enhancements for Wired-to-Wireless Paths: A Real-World Home WLAN Case Study
Ritesh Taank and Xiaohong Peng
- QoS Enhancements and Performance Analysis for Delay Sensitive Applications
J. Wang, L. Guan, X.G. Wang, A. Grigg, I. Awan, I. Phillips, and X. Chi
- An Efficient Admission Control Methodology for Satisfying QoS Requirements in NGN Networks
Cherif Ghazel and Leila Saidane

AINA Session 4C: Privacy and Trust Management

Session Chair: Arjan Durresti, Indiana University-Purdue University Indianapolis

Room: JSB

- A Secure Revised Simplex Algorithm for Privacy-Preserving Linear Programming
Jaideep Vaidya
- Trustworthiness Assessment of Wireless Sensor Data for Business Applications
Laurent Gomez, Annett Laube and Alessandro Sorniotti
- Key Management in Web of Trust for Mobile Ad Hoc Networks
Hisham Dahshan and James Irvine
- Enabling Fast Bootstrap of Reputation in P2P Mobile Networks
Roberto Cascella

PAEWN Session 1: Network Protocol

Session Chair: Lan Wang, University of Bradford
Room: C8

- QoS-Aware Router Combining Features of Conventional Routing and Flow-aware Routing Based on Resource Management over NGN
Boyoung Rhee, Sungchol Cho, Jin Xianshu, Sunyoung Han
- Using Multi-valued Decision Diagrams to Solve the Expected Hop Count Problem
Johannes Ulrich Herrmann, Sieteng Soh, Geoff West, and Suresh Rai
- Fair and Latency Aware Uplink Scheduler in IEEE 802.16 Using Customized Deficit Round Robin
Elmabruk Laias, Irfan Awan, Pauline. ML.Chan
- Performance Analysis of EAP Methods Used as GDOI Phase 1 for IP Multicast on Airplanes
Prashant Pillai, Yim-Fun Hu

WuNet Session 1: Physical/Link/Network Layer Issues

Session Chair: Hwee-Pink Tan, The Institute for Infocomm Research
Room: C30

- Effects of Channel Estimation Errors in OFDM-MIMO-based Underwater Communications
J. E. Hakegard and K. Grythe
- Multi-node Processing for Asymmetrical Communications in Underwater Acoustic Networks
A. Silva, J. Huillery and S. M. Jesus
- Analysis of an Automatic Repeat Request Scheme Addressing Long Delay Channels (Invited)
L. Badia, P. Casari, M. Levorato and M. Zorzi
- Sector-based Routing with Destination Location Prediction for Underwater Mobile Networks (Invited)
N. Chirdchoo, W. S. Soh and K. C. Chua
- Topology Design of Undersea Cables Considering Survivability Under Major Disasters
W. Wu, B. Moran, J. Manton and M. Zukerman

BioCom Session 1: Data Management and Simulations

Session Chair: Leonard Barolli, Fukuoka Institute of Technology
Room: D42

- Knowledge Extraction and Extrapolation Using Ancient and Modern Biomedical Literature
Harsha Gopal Goud Vaka, Snehasis Mukhopadhyay
- A Software System Development for Probabilistic Relational Database Applications for Biomedical Informatics
Ping-Tsai Chung, Fahmeed Afzal, Hsin-Hua Hsiao
- Analyzing the Interaction of ADF/Cofilin with Actin through Molecular Dynamics Simulations
Ershela Durresti, Paul Dalhaimer, Thomas Pollard

IWDENS Session 1: Disaster Information System

Session Chair: Yoshitaka Shibata, Iwate Prefectural University
Room: E59

- A Design of Reduced Data Representation for Information Sharing in the Disaster-affected Area
Misako Urakami, Keiji Fujii, Mitsuhiro Kota, Hiroshi Matsuno
- Wireless Distributed Network System for Relief Activities after Disasters - A Construction Policy of Heterogeneous Network Architecture
Tetsuya Shigeyasu, Misako Urakami, Hiroshi Matsuno
- Development of the Student Refuge Information System Using IC Card Type Student Identification Cards
Hiroaki Yuze, Yuji Aota, Takashi Kawada
- Information and Communication Network Infrastructure based on Experiences from Noto-hanto-oki Earthquake
Akihiro Miyakawa and Yoshitaka Shibata

FINA Session 4: Multimedia Systems and Networks

Session Chair: Yuka Kato, Advanced Institute of Industrial Technology
Room: F21

- An Adaptation System for P2P Multimedia Applications
Derdour Makhoul, Nacira Ghoualm-Zine, Philippe Roose and Marc Dalmau
- Requirements and Strategy for Presentation Stage Synchronization of Multi-object Multimedia Applications
Ting Peng and Kai Du
- Pico Cellular MAC Protocol for Multimedia Communication
Bilal Qazi, Angela Vivero, Omar Alani and Jaafar.M.H Elmirghani
- A Model for the Transmission of Multimedia Data Flow Based on the Use of Shared Memory Mechanism
André Gustavo P. da Silva, Adilson B. Lopes, Felipe A.P. Pinto and Carlos Eduardo da Silva

13:00 - 14:00 Lunch

14:00 - 15:00 Keynote III

Elisa Bertino (Purdue University)
Location-aware Authentication and Authorization - Concepts and Issues
Session Chair: Makoto Takizawa (Seikei University)
Room: Great Hall

15:00 - 15:30 Tea/Coffee

15:30 - 17:30 Technical Sessions

AINA Session 5A: Quality of Service in Web Services

Session Chair: Wenny Rahayu, La Trobe University
Room: C7

- A Survey and Analysis on Semantics in QoS for Web Services
Vuong Xuan Tran and Hidekazu Tsuji
- Exploiting Request Characteristics to Improve Performance of Web Services Based Business Applications
Tong Yizhu, Wang Hao, and Liu Taoying
- Massively Scalable Web Service Discovery
George Anadiotis, Spyros Kotoulas, Holger Lausen and Ronny Siebes
- Towards an Approach to Defining Capacity-Driven Web Services
Zakaria Maamar, Samir Tata, Djamel Belaid and Khouloud Boukadi

AINA Session 5B: Workflows and Reliability in Grid Computing

Session Chair: Minoru Uehara, Toyo University
Room: C9

- Reliability-Driven Reputation Based Scheduling for Public-Resource Computing Using GA
Xiaofeng Wang, Chee Shin Yeo, Rajkumar Buyya, and Jinshu Su
- A Highly Available Grid Metadata Catalog
Henrik Thostrup Jensen and Josva Kleist
- Transaction Management for Reliable Grid Applications
Feilong Tang, Minyi Guo, Minglu Li, and Li Li
- Brain Image Registration Analysis Workflow for fMRI Studies on Global Grids
Suraj Pandey, William Voorsluys, Mustafizur Rahman, Rajkumar Buyya, James Dobson and Kenneth Chiu

AINA Session 5C: Mobile Networks and Applications

Session Chair: Winston Seah, Institute for Infocomm Research
Room: JSB

- Name Resolution Middleware Using Relative Positional Relationship to Support Wireless Visible Area Communication
Atsushi Noda, Teruaki Kitasuka, Shigeaki Tagashira, Tsuneo Nakanishi and Akira Fukuda
- Data Dissemination with Drop Boxes
Mun J. Lok, Bilal R. Qazi, and Jaafar M.H. Elmirghani
- A Proposal to Enhance and Control Continuous Communications in Proxy Mobile IPv6
Joon-Suk Kang, Motoyuki Ohmori, and Koji Okamura
- Comparative Performance Analysis of CAC Reward Optimization Algorithms in Wireless Networks
Okan Yilmaz and Ing-Ray Chen

PAEWN Session 2: Measurement, Modelling and Evaluation

Session Chair: Prashant Pillai, University of Bradford
Room: C8

- Wireless Measurement Framework to Survey an Area with Required Communication Quality
Yuzo Taenaka, Shigeru Kashihara, Youki Kadobayashi, Suguru Yamaguchi
- Analytical Modeling of Active Queue Management under Dynamic Channel Conditions
Lan Wang, Geyong Min, Irfan Awan
- Queue Length Behavior on Restricted Link under Bursty Self-similar TCP Traffic
Takuo Nakashima
- Performance Evaluation Based on Simulation of Improving Dynamic Probabilistic Flooding in MANETs
Abdalla Musbah Hanashi, Irfan Awan, Mike Woodward

WuNet Session 2: Medium Access Control

Session Chair: Jan-Erik Hakegard, SINTEF, Norway
Room: C30

- A Novel Spatially Shared TDMA Protocol and Quality Measure for Ad-Hoc Underwater Acoustic Network (Invited)
R. Diamant, M. Pinchasevich, I. Achark
- A CDMA-Based MAC Protocol in Tree-Topology Underwater Acoustic Sensor Networks (Invited)
Jong-Pil Kim, Jae-Won Lee, Youn-Seon Jang, Kweon Son, and Ho-Shin Cho
- A Lightweight Protocol Suite for Underwater Communication
H. Rustad
- A Survey on Medium Access Control in Underwater Acoustic Sensor Networks
G. A. Shah

BioCom Session 2: Enabling Technologies

Session Chair: Arjan Durrezi, Indiana University-Purdue University Indianapolis
Room: D42

- Real-time Monitoring of Vital Signs
Birhan Payli, Arjan Durrezi, Deniz U. Dincer, Leonard Barolli
- A New Teleconference System for Healthcare Applications by GigaEther-based Omni-directional Video Transmission
Hirokazu Ookuzu, Yosuke Sato, Koji Hashimoto, and Yoshitaka Shibata
- Toward fMRI Group Identification based on Brain Lateralization
Magno Guillen, Malek Adjouadi, Xiaozhen You, Armando Barreto, Naphtali Rische, and William Gaillard

IWDENS Session 2: Wireless Emergency Network

Session Chair: Yoshitaka Shibata, Iwate Prefectural University
Room: E59

- Disaster Information Network by Cognitive Radio LANs
Goshi Sato, Daisuke Asahizawa, Yasuhiro Kawano, Yoshitaka Shibata
- Disaster Surveillance Video Transmission System by Wireless Ballooned Network
Daisuke Asahizawa, Yosuke Sato, Goshi Sato, Yoshitaka Shibata
- A Proposal of Tsunami Warning System Using Area Mail Disaster Information Service on Mobile Phones
Yasuaki Teshirogi, Jun Sawamoto, Norihisa Segawa, Eiji Sugino
- Effective Disaster Communication Method by Personalized Wireless LAN System
Keisuke Okaya, Takashi Miura, Mikio Tanii, Akiko Yokota, Sho Koshigoe, Kazuo Takahata, Yoshitaka Shibata

FINA Session 5: Intrusion Detection and Access Control

Session Chair: David Taniar, Monash University
Room: F21

- TCP/IP Model and Intrusion Detection Systems
Safaa Zaman and Fakhri Karray
- A Multi-Agent-based Approach to Improve Intrusion Detection Systems False Alarm Ratio by Using Honeypot
Babak Khosravifar, Maziar Gomrokchi and Jamal Bentahar
- Handling Context in a Semantic-based Access Control Framework
Moussa Ehsan, Morteza Amini and Rasool Jalili
- Privacy Protection in Passive Network Monitoring: an Access Control Approach
Georgios Lioudakis, Fotios Gogoulos, Anna Antonakopoulou, Dimitra Kaklamani and Iakovos Venieris

18:30 - 21:30

Dinner

Thursday, May 28, 2009

09:30 - 11:00 Technical Sessions

AINA Session 6A: Multimedia Systems and Applications

Session Chair: Yuka Kato, Advanced Institute of Industrial Technology

Room: C7

- JPEG Steganography: A Performance Evaluation of Quantization Tables
Adel Almohammad, Gheorghita Ghinea, and Robert M. Hierons
- Serial and Parallel Transmission Models for Multi-Source Streaming of Multimedia Objects
Alireza Goudarzi Nemati, Tomoya Enokido, and Makoto Takizawa
- PHD - A Generic and Flexible Architecture for IPTV in Authorized Domains
Marcos Antonio Simplício Jr., Vlad Coroama, Yeda R. Venturini, Tereza Carvalho, Mats Naslund, and Makan Pourzandi
- The Efficiency Method of Sanitizable Signature Scheme for SMF
Hirokazu Miyata, Ryuya Uda and Kenichi Okada

AINA Session 6B: Pervasive and Ubiquitous Computing

Session Chair: Takahiro Hara, Osaka University

Room: C9

- Situation-Aware Adaptive Recommendation to Assist Mobile Users in a Campus Environment
Amel Bouzeghoub, Kien Ngoc Do, and Leandro Krug Wives
- Tracking Anonymous Sinks in Wireless Sensor Networks
Elhadi M. Shakshuki, Tarek R. Sheltami, Nan Kang, and Xinyu Xing
- Sensor Data Fusion Using DS_m Theory for Activity Recognition under Uncertainty in Home-Based Care
Hyun Lee, Jae Sung Choi and Ramez Elmasri
- A Distributed Dynamic Adaptation Model for Component-Based Applications
Maria Teresa Segarra and Francoise Andre

AINA Session 6C: Security 1: Intrusion Detection Systems

Session Chair: Roberto Gioacchino Cascella, University of Trento

Room: JSB

- Detecting Man-in-the-Middle and Wormhole Attacks in Wireless Mesh Networks
Stephen Mark Glass, Vallipuram Muthukkumarasamy, and Marius Portmann
- Fuzzy ESVD approach for Intrusion Detection Systems
Safaa Zaman and Fakhri Karray
- Correlating TCP/IP Interactive Sessions with Correlation Coefficient to Detect Stepping-Stone Intrusion
Guoqing Zhao, Jianhua Yang, Gurdeep S. Hura, Long Ni, and Shou-Hsuan Stephen Huang
- Masquerade Detection Using Command Prediction and Association Rules Mining
Han-Ching Wu and Shou-Hsuan Huang

SMPE Session 1:

Session Chair: Mieso Denko, University of Guelph

Room: C8

- A Property Based Framework for Trust and Reputation in Mobile Computing
Kevin Jones, Helge Janicke, Antonio Cau
- Distributed Search for Balanced Energy Consumption Spanning Trees in Wireless Sensor Networks
Andrei Gagarin, Sajid Hussain, Laurence Yang

TeNAS Session 1: Ad Hoc and Sensor Networks

Session Chair: Ted Huang, Chunghwa Telecom
Room: C30

- A Hierarchically Structured Worldwide Sensor Web Architecture
I.Rhead, M.Merabti, H.Mokhtar, P.Fergus
- A Trial of a Worker's Motion Trace System Using Terrestrial Magnetism and Acceleration Sensors
Nobuyoshi Sato, Shouichi Odashima, Jun Suzuki, Taiji Ishikawa, Yoshitoshi Murata
- A Topology Control Protocol for 2D Poisson Distributed Wireless Sensor Networks
Waltenegus Dargie, Alexander Schill, Rami Mochaourab and Lin Guan
- Towards a Context-Aware Identity Management in Mobile Ad-hoc Networks (IMMANets)
Abdullahi Arabo, Qi Shi, Madjid Merabti

INVITE Session: VR and Tele-existence Systems

Session Chair: Yoshitaka Shibata, Iwate Prefectural University
Room: D42

- Layer-based Dome Contents Creation Using Scenario Description Language
Tetsuro Ogi, Daisuke Furuyama, Tetsuro Fujise
- Development of Immersive Virtual Driving Environment Using OpenCABIN Library
Yoshisuke Tateyama, Tetsuro Ogi, Hidekazu Nishimura, Noriyasu Kitamura, Harumi Yashiro
- An Experiment on Tele-immersive Communication with Tiled Displays Wall over JGN2plus Network
Yasuo Ebara, Yoshitaka Shibata
- A Middleware System to Realize Virtual Reality on Tele-Immersion Environment
Keisuke Yatsu, Yoshitaka Shibata
- Asynchronous Collaborative Support System by Revision Tree Method
Hiroki Ogasawara, Yoshitaka Shibata

SRIA Session:

Session Chair: Vidyasagar Potdar, Curtin University of Technology
Room: E59

- An RFID-Based System for Emergency Health Care Services
Cristina Elena Turcu, Cornel Turcu, and Valentin Popa
- Enhancing the Flexibility of Manufacturing Systems Using the RFID Technology
Valentin Vlad, Adrian Graur, Cristina Elena Turcu, Cezar Popa
- Wireless Sensor Networks: A Survey
Vidyasagar Potdar, Atif Sharif, Elizabeth Chang
- Applications of Wireless Sensor Networks in Pharmaceutical Industry
Manohar Potdar, Atif Sharif, Vidyasagar Potdar, Elizabeth Chang

FINA Session 6: Communication Technology

Session Chair: Markus Aleksy, ABB AG Corporate Research Centre
Room: F21

- Performance Evaluation of Secure Call Admission Control (SCAC) for Multiclass Internet Services
Abdullah Alhaj, John Mellor and Irfan Awan
- SIP Robustness Testing Based on TTCN-3
Yang Xiang, Zhiliang Wang and Xia Yin
- Improved Channel Estimation Using Wavelet Denosing for OFDM and OFDMA Systems
Wang Xue, Zhao Lin-jing, and Li Jian-dong

11:00 - 11:30

Tea/Coffee

11:30 - 13:00 Technical Sessions

AINA Session 7A: Wireless Sensor Networks 1

Session Chair: Fatos Xhafa, Technical University of Catalonia

Room: C7

- Route Construction Based on Measured Characteristics of Radio Propagation in Wireless Sensor Networks
Yasuhiro Nose, Akimitsu Kanzaki, Takahiro Hara and Shojiro Nishio
- An Analytical Performance Evaluation for WSNs Using Loop-Free Bellman Ford Protocol
Mohammad Baharloo, Reza Hajisheykhi, Mohammad Arjomand and Amir Hossein Jahangir
- Information Communication Mechanism for Loosely Coupled Mobile User Groups in Wireless Sensor Fields
Soochang Park, Euisin Lee, Fucai Yu, Min-Sook Jin and Sang-Ha Kim
- Lessons Learned: Simulation Vs WSN Deployment
Elhadi Shakshuki, Haroon Malik and Tarek Sheltami

AINA Session 7B: Security 2: New Languages and Systems

Session Chair: Bernd Freisleben, University of Marburg

Room: C9

- Similarity Search over DNS Query Streams for Email Worm Detection
Nikolaos Chatzis and Nevil Brownlee
- ReAISec: A Relational Language for Advanced Security Engineering
Mohamed Hamdi, Nejla Essaddi, and Nouredine Boudriga
- A New Surveillance Video Tracking System Based on Omni-directional and Network Cameras
Yosuke Sato, Koji Hashimoto and Yoshitaka Shibata
- Exclusion of Forged Files from Multi-Source Downloadable P2P Systems
Yuna Kim, Jong Kim, Junghei You, and Heejae Park

AINA Session 7C: Scheduling and Routing Schemes

Session Chair: Hiroshi Matsuno, Yamaguchi University

Room: JSB

- Packet Scheduling Algorithm with QoS Provision in HSDPA
Ying-Hong Wang, Kuo-Feng Huang and Cheng-Yi Le
- A Simple Distributed ID Assignment Scheme for CSMA/IC Using Well Arranged Rotation ID in Ad Hoc Networks
Ki-seok Lee and Cheeha Kim
- Privacy-Aware Routing Approach for Mobile Applications
Markus Aleksy and Thomas Butter
- A New Space Time Cooperative Diversity Scheme Based on Simple Feedback
Dechun Sun, Ke-chu Yi and Xiao-hui Li

SMPE Session 2:

Session Chair: Mieso Denko, University of Guelph

Room: C8

- Formal Specification of a Safety Critical Pervasive Application for a Nuclear Medicine Department
Antonio Coronato, Giuseppe De Pietro
- Dynamic Role Assignment using Semantic Contexts
Anand Dersingh, Ramiro Liscano, Allan Jost, John Finnson
- Secure Safety Messages Broadcasting in Vehicular Network
Maryam Barzegar, Nasser Mozayeni, Mahmood Fathy

TeNAS Session 2: Systems and Software Management

Session Chair: Ella Pereira, Edge Hill University
Room: C30

- Fault Tolerance Small-World Cellular Neural Networks for Intermittent Faults
Katsuyoshi Matsumoto, Minoru Uehara, and Hideki Mori
- A Comparison between the Tunneling process and Mapping schemes for IPv4/IPv6 Transition
Ra'ed AlJaafreh, John Mellor, and Irfan Awan
- Design of Alarm Management System in Hybrid IP/Optical Networks
Te-Lung Liu, Hui-Min Tseng, Hui-Min Chen, Jen-Wei Hu, Chu-Sing Yang and C. Eugene Yeh
- Optimization of iSCSI Remote Storage Access through Multiple Layers
Reika Higa, Kosuke Matsubara, Takao Okawamari, Saneyasu Yamaguchi, Masato Oguchi
- Software Management of Heterogeneous Execution Platforms
Andre Bottaro, Levent Gurgen, Maxime Vincent, Francois-Gael Ottogalli, Stephane Seyvoz

MAW Session 1: Recommender Systems

Session Chair: Shengrui Wang, Université de Sherbrooke
Room: D42

- Do Metrics Make Recommender Algorithms?
Elisa Campochiaro, Riccardo Casatta, Paolo Cremonesi, Roberto Turrin
- An Adaptive Personalized Recommender Based on Web-Browsing Behavior Learning
Kosuke Takano, Kin Fun Li
- Hybrid Recommender System Using Latent Features
Saranya Maneeroj, Atsuhiko Takasu
- Including Context in a Transactional Recommender System Using a Pre-Filtering Approach: Two Real E-Commerce Applications
Michele Gorgoglione, Umberto Panniello

HWISE Session 1: Performance Evaluation

Session Chair: Arjan Durrezi, Indiana University-Purdue University Indianapolis
Room: E59

- Impact of IEEE 802.11n Operation on IEEE 802.15.4 Operation
Balaji Polepalli, Weigao Xie, Dhanashree Thangaraja, Mukul Goyal, Hossein Hosseini, and Yusuf Bashir
- Performance Evaluation of SSTP- A Transport Protocol for Satellite Channels
Andréa de Fátima Ferreira Canhoto and Alessandro Anzaloni
- A Seamless Handover Scheme with Pre-registration in NEMO
Ying-Hong Wang, Kuo-Feng Huang and Hsin-Yi Ho

FINA Session 7: Secure Networks and Systems

Session Chair: Vamsi Paruchuri, University of Central Arkansas
Room: F21

- Security of Two Recent Constant-Round Password Authenticated Group Key Exchange Schemes
Raphael Phan
- Cipher Suite Setting Problem of SSL Protocol and It's Solutions
Yunyoung Lee, Soonhaeng Hur, Dongho Won and Seungjoo Kim
- Security of Group Key Exchange Protocols with Different Passwords
Raphael Phan
- An Architectural Approach for Self-Managing Security Services
Giovanni Russello and Naranker Dulay

13:00 - 14:00

Lunch

14:00 - 15:30 Technical Sessions

AINA Session 8A: Interaction in Web Services

Session Chair: Florian Daniel, University of Trento
Room: C7

- On the Synchronization of Web Services Interactions
Zakaria Maamar, Quan Z. Sheng, Hamdi Yahyaoui, Khouloud Boukadi, and Xitong Li
- Diagnosing Incompatibilities in Web Service Interactions for Automatic Generation of Adapters
Yehia Taher, Ali Ait-Bachir, Marie-Christine Fauvet and Djamel Benslimane
- Building Distributed Index for Semantic Web Data
Juan Li

AINA Session 8B: Security 3: Authentication and Access Control

Session Chair: Masato Oguchi, Ochanomizu University
Room: C9

- Advantages of User Authentication Using Unclear Images -Automatic Generation of Decoy Images
Takumi Yamamoto, Atsushi Harada, Takeo Isarida and Masakatsu Nishigaki
- An Anonymous DoS-Resistant Password-Based Authentication, Key Exchange and Pseudonym Delivery Protocol for Vehicular Networks
Joseph C. M. Teo, Lek Heng Ngoh and Huaqun Guo
- IGMPx: Port Based Service Access Control for IP Multicast
Prashant Pillai and Yim Fun Hu
- A Hierarchical Model for Firewall Policy Extraction
Eduardo Horowitz and Luis Lamb

AINA Session 8C: WLAN, RFID and OFDM Systems

Session Chair: Pascale Minet, INRIA, Le Chesnay
Room: JSB

- Improved 4-ary Query Tree Algorithm for Anti-Collision in RFID System
Sungsoo Kim, Seongjoon Lee, and Kwangseon Ahn
- Mitigation of Intercarrier Interference Based on General Precoder Design in OFDM Systems
Xia Wang and Shihua Zhu
- An Analytical Model for MAC Protocol Configuration in WLAN
Suhaimi Bin Abd Latif, M.A Rashid and F. Alam

BLSMC Session 1:

Session Chair: Jacques Demongeot, University J. Fourier
Room: C8

- The Small-World Model for Amino Acid Interaction Networks
Omar Gaci, Stefan Balev
- Loss of Linearity and Symmetrisation in Regulatory Networks
Jacques Demongeot, Eric Goles, Sylvain Sené,
- A Numerical Simulation of Transport and Biodegradation in Saturated Porous Media
Salah A. Kammouri, Mohamed El Hatri, M.Nabil Kabbaj
- Towards a Rational Approach for the Logical Modelling of Inhibition in Metabolic Networks
Oliver Ray

DMWPC Session 1: Data management and analysis

Session Chair: Takahiro Hara, Osaka University

Room: C30

- Mixing Scores from Artificial Neural Network and Social Network Analysis to Improve the Customer Loyalty
Carlos Andre Reis Pinheiro, Markus Helfert
- User Age Profile Assessment Using SMS Network Neighbors' Age Profiles
Sung Hyuk Park, Hojin Lee, Sang Pil Han, Dong Hoon Lee
- A Contextualized and Personalized Approach for Mobile Search
Feng Gui, Malek Adjouadi, and Naphtali Rishe
- CCA: A Calculus of Context-Aware Ambients
Francois Siewe, Antonio Cau, Hussein Zedan

MAW Session 2: Clustering and Classification

Session Chair: Atsuhiko Takasu, National Institute of Informatics

Room: D42

- An Enhanced Clustering Method Based on Grid-Shaking
Jinbeom Kang, Joongmin Choi, Jaeyoung Yang
- A Robust Algorithm for Fuzzy Document Clustering
Lifei Chen, Shengrui Wang, Qingshan Jiang
- Measures of Class Membership in Association Rule based Classification
Viet Phan-Luong
- SVM Fuzzy Hierarchical Classification Method for Multi-class Problems
Taoufik Guernine, Kacem Zeroual

HWISE Session 2: Enabling Technologies

Session Chair: Leonard Barolli, Fukuoka Institute of Technology

Room: E59

- Cooperative Packet Relaying in Wireless Multi-hop Networking
Lu Yan
- Context-Aware Computing Support for Network-Assisted Seamless Vertical Handover in Remote Patient Monitoring
Pravin Pawar, Bert Jan van Beijnum, Hermie Hermens, Katarzyna Wac and Dimitri Konstantas
- A Fuzzy Decision Maker for Wireless Sensor Network in Ubiquitous Network Environment
Huma Qayyum, Shaleeza Sohail, Ghalib A. Shah and Aasia Khanum
- Identity-Based Cryptography for Securing Mobile Phone Calls
Matthew Smith, Christian Schridde, Björn Agel and Bernd Freisleben

FINA Session 8: Grid, P2P, and Mobile Wireless Networks

Session Chair: Tomoya Enokido, Risho University

Room: F21

- A Public Keys Based Architecture for P2P Identification, Content Authenticity and Reputation
Neander Brisola, Altair Santin, Lau Lung, Heverson Ribeiro and Marcelo Vithoft
- An Alternative Approach for Header Compression Over Wireless Mesh Networks
Andréa Giordanna O. Nascimento, Edjair Mota, Saulo Jorge B. de Queiroz and Edson do Nascimento Jr.
- A Static Benchmarking for Grid Scheduling Problems
Fatos Xhafa, Leonard Barolli, Juan Antonio Gonzalez and Pawel Jura
- Lightweight Secure IP Address Auto-Configuration Based On VASM
Majid Tajamolian, Majid Taghiloo, and Mahnaz Tajamolian

15:30 - 16:00

Tea/Coffee

16:00 - 18:00 Technical Sessions

AINA Session 9A: Networks: Scalability, Survivability, and Recovery

Session Chair: Takuo Nakashima, University of Tokay

Room: C7

- Survivability in Existing ATM-Based Mesh Networks
Isaac Woungang, Guangyan Ma, Mieso Denko, Alireza Sadeghian, Sudip Misra and Alexander Ferworn
- Effects of On-path Buffering on TCP Fairness
Saleem Bhatti and Martin Bateman
- Scalability Analysis to Optimize a Network on Chip
Marta Beltrán, Antonio Guzmán, and Fernando Sevillano
- Network Voronoi Diagram Based Range Search
Kefeng Xuan, Geng Zhao, David Taniar, B Srinivasan, Maytham Safar and M. Gavrilova

AINA Session 9B: Wireless Sensor Networks 2

Session Chair: Elhadi Shakshuki, Acadia University

Room: C9

- Optical Fiber Sensor Network Integrating Communication and Sensing Functions Using Hetero-core Spliced Fiber Optic Sensors
Nobutoshi Abe, Norihiko Shinomiya and Yoshimi Teshigawara
- Sink Location Service via Inner Rectangular in Wireless Sensor Networks
Hosung Park, Taehee Kim, Jeongcheol Lee, Min-Sook Jin and Sang-Ha Kim
- How long is the lifetime of a Wireless Sensor Network?
Nok Hang Mak and Winston Seah
- Medium Access Control in Large Scale Clusters for Wireless Sensor Networks
Pedro Barbosa, Neil White and Nick Harris

AINA Session 9C: Web Technology and Applications

Session Chair: Kin Fun Li, Victoria University

Room: JSB

- Find Influential eBay Buyers for Viral Marketing – A Conceptual Model of BuyerRank
Lam Hon Wai and Chen Wu
- Priority Scheduling of Requests to Web Portals
D.R.W. Holton, I.U. Awan, and M. Younas
- GBLT: Load Distribution Method for High Density by User Behavior in MMO Virtual Environment
Rei Endo, Kenji Takagi and Hiroshi Shigeno
- Implementation of an E-Learning System Using P2P, Web and Sensor Technologies
Keita Matsuo, Leonard Barolli, Fatos Xhafa, Vladi Kolici, Akio Koyama, Arjan Durrresi and Rozeta Miho

BLSMC Session 2:

Session Chair: Andrei Doncescu, LAAS-CNRS

Room: C8

- Regulatory Networks Analysis: Robustness in Morphogenesis Regulation
Hedi Ben-Amor, Sébastien Cadau, Adrien Elena, Danièle Dhouailly, Jacques Demongeot
- Modeling the Glycolysis: an Inverse Problem Approach
Jacques Demongeot, Andrei Doncescu
- Imaging and Modelling of a Degenerative Disease of the Retina
Muhammad Tayyab, Yves Usson, Thierry Léveillard, Jacques Demongeot
- Machine Learning Applied to BRCA1 Hereditary Breast Cancer Data
Andrei Doncescu, Batiste Tauzin, M.Nabil Kabbaj
- Abductive Reasoning in Cancer Therapy
Yoshitaka Yamamoto, Katsumi Inoue, Andrei Doncescu

DMWPC Session 2: Applications / Sensor networks

Session Chair: Mieso Denko, University of Guelph
Room: C30

- A Content Clipping System for Web Browsing Using Cellular Phones
Kenji Ohnishi, Yuki Arase, Takahiro Hara, Toshiaki Uemukai, Shojiro Nishio
- On a TDMA Slot Assignment Considering the Amount of Traffic in Wireless Sensor Networks
Akimitsu Kanzaki, Takahiro Hara, Shojiro Nishio
- Adaptive and Online One-Class Support Vector Machine-based Outlier Detection Techniques for Wireless Sensor Networks
Yang Zhang, Nirvana Meratnia, Paul Havinga

MAW Session 3: Document and Text Information Retrieval

Session Chair: Kosuke Takano, Kanagawa Institute of Technology
Room: D42

- Document Oriented Pruning of Inverted Index in Information Retrieval Systems
Lei Zheng, Ingemar J. Cox
- CUTER: An Efficient Useful Text Extraction Mechanism
George Adam, Christos Bouras, Vassilis Pouloupoulos
- Learning to Extract Content from News Webpages
Alex Spengler and Patrick Gallinari
- Load Balancing Using Consistent Hashing: A Real Challenge for Large Scale Distributed Web Crawlers
Mitra Nasri and Mohsen Sharifi

HWISE Session 3: Energy Efficient Solutions

Session Chair: Arjan Durresti, Indiana University-Purdue University Indianapolis
Room: E59

- Scalable Energy-Aware Dynamic Task Allocation
Ali Bokar, Muslim Bozyigit and Cevat Sener
- An Efficient Shared-tree-Based Multi-Source Multicast Routing Protocol in Mobile Networks
Fumiaki Sato
- An Energy Efficient Chain-Based Clustering Routing Protocol for Wireless Sensor Networks
Jae Duck Yu, Kyung Tae Kim, Bo Yle Jung, and Hee Yong Youn

FINA Session 9: AdHoc and Sensor Networks

Session Chair: Leonard Barolli, Fukuoka Institute of Technology
Room: F21

- Empowered Certification Authority in VANETs
Monis Akhlaq, Baber Aslam, Faeiz Alserhani, Irfan U. Awan, and John Mellor
- Performance Analysis in AODV Based Protocol for MANETs
Mohamed Elazhari, Othman A. Al-amoudi, Michael E. Woodward and Irfan Awan
- Centralized Dynamic Clustering for Wireless Sensor Network
Fuad Bajaber and Irfan Awan
- An Efficient Routing Mechanism Based on Heading Angle
Othman alamodi, Mohamed elazhari, Michael E. Woodward and Irfan Awan

18:30 - 22:00

Banquet

Friday, May 29, 2009

09:30 - 11:00 Technical Sessions

AINA Session 10A: Recovery and Fault Tolerance

Session Chair: Jamal Bentahar, Concordia University

Room: C7

- Recoverable Cuts to Make Agreement among Peers
Ailixier Aikebaier, Valbona Barolli, Tomoya Enokido, and Makoto Takizawa
- A New Ballooned Wireless Mesh Network System for Disaster Use
Yoshitaka Shibata, Yosuke Sato, Naoki Ogasawara, Go Chiba, and Kazuo Takahata
- Determining the Net Financial Risk for Decision Making in Business Interactions
Omar Hussain, Tharam Dillon, Elizabeth Chang and Farookh Hussain
- Fault-tolerant Flocking of Mobile Robots with whole Formation Rotation
Yan Yang, Samia Souissi, Xavier Defago, and Makoto Takizawa

AINA Session 10B: Security 4: Architectures and Protocols

Session Chair: Masakatsu Nishigaki, Shizuoka University

Room: C9

- Testing the Symbian OS Platform Security Architecture
Thomas Badura and Michael Becher
- A Protocol for Releasing Purpose Marks to Prevent Illegal Information Flow
Tomoya Enokido, S. Misbah Deen, and Makoto Takizawa
- Anomaly Detection for DNS Servers Using Frequent Host Selection
Akira Yamada, Yutaka Miyake, Masahiro Terabe, Kazuo Hashimoto and Nei Kato
- A Novel Cookie-Based DDoS Protection Scheme and its Performance Analysis
Rongfei Zeng, Chuang Lin, Hongkun Yang, Y. Wang, Y. Wang and P. Ungsunan

AINA Session 10C: Grid and P2P Computing

Session Chair: Tarek Sheltami, King Fahd University of Petroleum and Minerals

Room: JSB

- Introducing Group Participation Support into P2P Web Caching Systems
Akihiro Iwamaru, Tsuyoshi Itokawa, Teruaki Kitasuka and Masayoshi Aritsugi
- VirtCloud: Virtualising Network for Grid Environments--First Experiences
David Antos, Ludek Matyska, Petr Holub and Jiri Sitera
- Spigot: Fragment-Level File Sharing and Consistency on Grids
Po-Cheng Chen, Jyh-Biau Chang, Jia-Hao Yang, Yi-Chang Zhuang and Ce-Kuen Shieh
- DACA: Dynamic Anti-Cheating Architecture for MMOGs
Huey-Ing Liu and Bing-Rong Tang

WON Session 1: Routing

Session Chair: Ling-Jyh Chen, Academia Sinica

Room: C8

- Opportunistic Routing for Disruption Tolerant Networks
Marcello Caleffi and Luigi Paura
- Privacy in Content-Based Opportunistic Networks
Abdullatif Shikfa, Melek Onen, and Refik Molva
- Improving Opportunistic Data Dissemination via Known Vector
Jyh-How Huang, Ying-Yu Chen, Yi-Chao Chen, Shivakant Mishra, Ling-Jyh Chen

MAW Session 4: Web Content Analysis

Session Chair: Mehdi Adda, University of Montreal
Room: C30

- A Content-Oriented Framework for Online Discussion Analysis
Anna Stavrianou, Jean-Hugues Chauchat, Julien Velcin
- A Hybrid Approach to Validate Induced Syntactic Relations
Nicolas Béchet, Mathieu Roche, Jacques Chauché
- Sentence-Level Opinion-Topic Association for Opinion Detection in Blogs
Malik Muhammad Saad Missen, Mohand Boughanem
- Wikipedia Relatedness Measurement Methods and Influential Features
Kotaro Nakayama, Masahiro Ito, Takahiro Hara, Shojiro Nishio

HWISE Session 4: Applications

Session Chair: Leonard Barolli, Fukuoka Institute of Technology
Room: D42

- Voice over Wireless Mesh Networks: A Case Study in the Brazilian Amazon Region during the Rainy Season
João Luis G. Moreira, Edjair Mota, Edson N Silva Jr, Leandro Carvalho, Saulo Jorge Queiroz and Christian Höene
- A Service-Oriented Model for Semantics-Based Data Management in Wireless Sensor Networks
Mudasser Iqbal, Hock Beng Lim, Wenqiang Wang and Yuxia Yao
- Design and Implementation of a Prototype Smart PARKing (SPARK) System using Wireless Sensor Networks
S.V. Srikanth, Pramod P.J., Dileep K.P., Tapas S., Mahesh U. Patil, and Sarat Chandra Babu N
- Street CORNERS: Real-time Contextual Representation of Sensor Network Data for Environmental Trend Identification
Patricia Morreale, Feng Qi and Paul Croft, George Chang, Justin Czarnik, Nick Doell, Jhon Espin and Ryan Suleski

FINA Session 10: Network Control, Analysis, and Performance Evaluation

Session Chair: Mieso Denko, University of Guelph
Room: F21

- Network Anomaly Detection Based on Statistical Approach and Time Series Analysis
Huang Kai, Qi Zhengwei, and Liu Bo
- Modelling an Integrated Scheduling Scheme under Bursty MMPP Traffic
Lei Liu, Xiaolong Jin and Geyong Min
- Analysis of the Weighted Fair Queuing System with Two Classes of Customers with Finite Buffer
Amina AlSawaai, Irfan Awan and Rod Fretwell
- Evaluating Wavelength Routing Power of Dynamic ROADMs (cat-I) for Various Traffic Types
Indumathi T.S., T. Srinivas, K. Rachaiah, B. Sivakumar, and V. Rajappa

11:00 - 11:30

Tea/Coffee

11:30 - 13:00 Technical Sessions

AINA Session 11A: Wireless Sensor Networks 3

Session Chair: Jacques Demongeot, University J. Fourier
Room: C7

- DCM-Arch: An Architecture for Data, Control, and Management in Wireless Sensor Networks
Quan Le-Trung, Amirhosein Taherkordi, Frank Eliassen, Hai Ngoc Pham, Tor Skeie and Paal E. Engelstad
- Distributed Data Aggregation in Multi-sink Sensor Networks Using a Graph Coloring Algorithm
Ryouhei Kawano and Toshiaki Miyazaki
- A Method for Determining Weight Reset Timing in a Wirelessly Networked Array with Independently Mobile Elements
William Lintz, John McEachen and Murali Tummala
- Configuring Beaconless IEEE 802.15.4 Networks Under Different Traffic Loads
Dawn Rohm, Mukul Goyal, Hossein Hosseini, August Divjak and Yusuf Bashir

AINA Session 11B: Distributed Databases and Data Mining

Session Chair: Robert Holton, University of Bradford
Room: C9

- Classification of Bloggers using Social Annotations
Shigeaki Sakurai, Hideki Tsutsui and Ryohei Orihara
- Supporting Complex Scientific Database Schema in a Grid Middleware
Helen Xiang
- Utilising Multimodal Interaction Metaphors in E-learning Applications: An Experimental Study
Marwan Alseid and Dimitris Rigas
- A New Method of Proactive Recovery Mechanism for Large-Scale Network Failures
Takuro Horie, Go Hasegawa, Satoshi Kamei and Masayuki Murata

AINA Session 11C: Communication Technology and Protocols 2

Session Chair: Lin Guan, Loughborough University
Room: JSB

- An Approach to Find Maximal Disjoint Paths with Reliability and Delay Constraints
Ruen-Chze Loh, Sieteng Soh, and Mihai Lazarescu
- Implementation of Lightweight TCP/IP for Small, Wireless Embedded Systems
In-Su Yoon, Sang-Hwa Chung and Jeong-Soo Kim
- On the False-Positive and False-Negative Behavior of a Soft-State Signaling Protocol
Melissa Tjong and Johan Lukkien

WON Session 2: Applications

Session Chair: Kun-chan Lan, National Cheng Kung University
Room: C8

- Approximating Travel Times using Opportunistic Networking
Rudi Ball and Naranker Dulay
- Opportunistic Social Network Experiments
Nicolas Montavont, Safaà Hachana, Lucien Loiseau

MAW Session 5: e-Learning and Web Search

Session Chair: Kin Fun Li, University of Victoria
Room: C30

- Voted Spheres: An Online, Fast Approach to Large Scale Learning
Bassam Farran, Craig Saunders
- SOA initiatives for eLearning. A Moodle case
Maria José Casany Guerrero, Marc Alier Forment, Miguel Ángel Conde González, Francisco José García Peñalvo
- Toward Feedback-Based Web Search Engine
Mehdi Adda, Rokia Missaoui, Petko Valtchev
- Temporal Dynamics of User Interests in Web Search Queries
Aysegul Cayci, Selcuk Sumengen, Cagatay Turkey, Selim Balcisoy, Yucel Saygin

FINA Session 11: Distributed Systems and Data Mining

Session Chair: Rasha Osman, University of Bradford
Room: F21

- A Cost Analysis of Solving the Amnesia Problems
Rubén de Juan-Marín, Luis Irún-Briz and Francesc D. Muñoz-Escóí
- A Hybrid Service Metadata Clustering Methodology in the Digital Ecosystems Environment
Hai Dong, Farookh Khadeer Hussain and Elizabeth Chang
- Workload Characterization of Autonomic DBMSs using Statistical and Data Mining Techniques
Zerihun Zewdu, Mieso Denko and Mulugeta Libsie
- Multidimensional Data Streams Summarization Using Extended Tilted-Time Windows
Yoann Pitarch, Anne Laurent, Marc Plantevit and Pascal Poncelet.

13:00 - 14:00

Lunch

Conference End