



The Fourth International Conference on Autonomic and Autonomous Systems

ICAS 2008

March 16-21, 2008 - Gosier, Guadeloupe

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ICNS 2008 - ICAS 2008

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Sunday, March 16

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15:00	Registration Starts
	Tutorial
16:00 – 17:30	Application Layer Multicast Dr. Kim Chin Australian Catholic University Limited, Australia
18:30 - 19:30	Welcome Cocktail

[Preliminary Program](#)

Monday, March 17

[Manuscript Preparation](#)

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09:00 - 09:15	Opening Address Prof. Dr. Jun Bi, Tsinghua University, China Prof. Dr. Kim Chin, Australian Catholic University Limited, Australia Prof. Dr. Petre Dini, Cisco Systems, Inc. // Concordia University, Canada Prof. Dr. Pascal Lorenz, University of Haute Alsace, France Prof. Dr. Masayuki Murata, Osaka University, Japan	
09:15 - 10:15	Special Talk Towards Anticipative Management of Systems and Networks Prof. Dr. Petre Dini, Cisco Systems, Inc. // Concordia University, Canada Dr. Alexander Clemm, Cisco Systems, Inc., USA	
10:15 - 10:30	Coffee Break	
10:30 - 12:15	ICNS 1	ICAS 1
12:15 - 13:45	Lunch on your own	
13:45 - 15:30	ICNS 2	ICAS 2
15:30 - 15:45	Coffee Break	
15:45 - 17:30	ICNS 3	ICAS 3
17:30 - 18:30	IARIA Work Group Meeting: A&A	

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Tuesday, March 18

08:30 - 10:15	ICNS 4	ICAS 4
10:15 - 10:30	Coffee Break	
10:30 - 12:15	ICNS 5	ICAS 5
12:15 - 13:45	Lunch on your own	
13:45 - 15:30	ICNS 6	ICAS 6
15:30 - 15:45	Coffee Break	
15:45 - 17:00	IARIA Work Group Meeting: NGN	

Wednesday, March 19

08:30 - 10:15	ICNS 7	ICAS 7
10:15 - 10:30	Coffee Break	
10:30 - 12:15	ICNS 8	ICAS 8
12:15 - 13:45	Lunch on your own	
13:45 - 15:30	ICNS 9	ICAS 9
15:30 - 15:45	Coffee Break	
15:45 - 17:00	ICNS 10	ICAS 10
19:00 - 23:00	ICNS 2008 // ICAS 2008 GALA DINNER	

Thursday, March 20

08:30 - 10:15	ICNS 11	ICAS 11
10:15 - 10:30	Coffee Break	
10:30 - 12:15	ICNS 12	
12:15 - 12:30	Closing session	

Friday, March 21

8:00 - 18:00	<p>Trip to Guadeloupe Island Only for those participants who registered via the registration form. On site registration subject to availability. One day trip including lunch</p> <p>Details:</p> <p>Departure from the Conference Hotel towards "Sainte-Rose" Stop at "Severin" Distillery (tasting/shopping) Departure via the "La Route de Mamelles" towards "Vieux Habitants" Visit the "Domaine de Vanibel" (Banana, Coffee, and Vanilla trees) Coffee and fruit tasting Lunch & Drinks at "Ti Cafe" de "Saint-Claude" (XVIII Century) Stop at "du Carbet" Waterfalls Bathing/Swimming (Natural Warm Water Pool) Stop at "Dumanoir Allee" Departure to the Hotel</p>
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DETAILED PROGRAM

ICAS 2008

ICAS 1: KUI 1

Session chair: Przemyslaw Kazienko

Usage-Based Positive and Negative Verification of User Interface Structure
Przemyslaw Kazienko

Model-Driven Engineering of Multi-target Plastic User Interfaces
Benoît Collignon, Jean Vanderdonckt, and Gaëlle Calvary

GrafiXML, a Multi-target User Interface Builder Based on UsiXML
Benjamin Michotte and Jean Vanderdonckt

Understanding Stories about Personal Documents
Daniel Gonçalves, Tiago Guerreiro, and Joaquim A. Jorge

Acquiring Knowledge as You Play
Debbie Richards

ICAS 2: KUI 2

Session chair: Debbie Richards

Expertise Recommendation: A Two-Way Knowledge Communication Channel
Debbie Richards, Meredith Taylor, and Peter Busch

Reactive Common Sense Reasoning for Knowledge-Based HMI
Michael Cebulla

A Transformational Approach for Pattern-Based Design of User Interfaces
Costin Pribeanu and Jean Vanderdonckt

Modeling User Interfaces to Workflow Information Systems
Josefina Guerrero, Jean Vanderdonckt, Juan M. Gonzalez, and Marco Winckler

The 4C Reference Model for Distributed User Interfaces
Alexandre Demeure, Jean-Sébastien Sottet, Gaëlle Calvary, Joëlle Coutaz, Vincent Ganneau, and Jean Vanderdonckt

ICAS 3: AWARE and MCMAC

Session chair: Maxim Foursa

Distributed Reasoning for Context-Aware Services through Design of an OWL Meta-Model
S. Verstichel, M. Strobbe, P. Simoens, F. De Turck, B. Dhoedt, and P. Demeester

A Location-Aware System Using RFID and Mobile Devices for Art Museums
R. Tesoriero, J. A. Gallud, M. Lozano, and V. M. R. Penichet

Innovative Control System for Industrial Environment
Maxim Foursa, David d'Angelo, and Rejin Narayanan

Adapting to Run-Time Changes in Policies Driving Autonomic Management
Raphael M. Bahati and Michael A. Bauer

ICAS 4: AUTSY 1

Session chair: Håvard Johansen

Using Ontology-Based Traffic Models for More Efficient Decision Making of Autonomous Vehicles
Ralf Regele

The Dynamic Enterprise Bus
Dag Johansen and Håvard Johansen

A Survey of Context Adaptation in Autonomic Computing
Cornel Klein, Reiner Schmid, Christian Leuxner, Wassiou Sitou, and Bernd Spanfelner

Enabling Self-Configuration in Autonomic Systems Using Case-Based Reasoning with Improved Efficiency
Malik Jahan Khan, Mian Muhammad Awais, and Shafay Shamail

ICAS 5: AUTSY 2

Session chair: Ralf Regele

Embodied Evolution with a New Genetic Programming Variation Algorithm
Anderson Luiz Fernandes Perez, Guilherme Bittencourt, and Mauro Roisenberg

Implementation of a Generic Autonomic Framework
Radu Calinescu

Connectivity of Thetis, a Distributed Hybrid Simulator, with a Mixed Control Architecture
Olivier Parodi, Abdellah El Jalaoui, and David Andreu

Does ns2 Really Simulate MPLS Networks?
Hugo Coll, Jaime Lloret, and Francisco Javier Sanchez

ICAS 6: CASES

Session chair: Jaime Lloret Mauri

Probabilistic Spectrum Based Azimuth Estimation with a Binaural Robotic Bat Head
Filips Schillebeeckx, Jonas Reijnen, and Herbert Peremans

Motion Estimation of a Mobile Robot Using Different Types of 3D Sensors
Chayakorn Netramai, Melnychuk Oleksandr, Chanin Joochim, and Hubert Roth

Increasing the Autonomy of Mobile Robots by On-line Learning Simultaneously at Different Levels of Abstraction
Willi Richert, Olaf Lüke, Bastian Nordmeyer, and Bernd Kleinjohann

ICAS 7: MODEL, ALCOC, and SELF

Session chair: Masayuki Murata

A New Road Network Model and Its Application in a Traffic Information System
Weifeng Lv, Wenjie Liao, Dongdong Wu, and Jiong Xie

Optimization of the Quine-McCluskey Method for the Minimization of the Boolean Expressions
Tarun Kumar Jain, D. S. Kushwaha, and A. K. Misra

A Modeling Method for ISP Topologies Based on Network-Cost Optimization
Naoto Hidaka, Shin'ichi Arakawa, and Masayuki Murata

Adaptive Action Selection in Autonomic Software Using Reinforcement Learning
Mehdi Amoui, Mazeiar Salehie, Siavash Mirarab, and Ladan Tahvildari

A New Approach for Discovering and Quantifying Hierarchical Structure of Complex Networks
Suyong Eum, Shin'ichi Arakawa, and Masayuki Murata

ICAS 8: AUTONOMIC 1

Session chair: Petre Dini

Policy-Based Enforcement of Database Security Configuration through Autonomic Capabilities
Ghassan Jabbour and Daniel A. Menaşcé

Autonomic Patterns: Modelling Data Killing Patterns Using High-Level Petri Nets
Wallace A. Pinheiro, Geraldo Xexéo, and Jano M. de Souza

An Ontology for Autonomic License Management
Qian Zhao and Mark Perry

ICAS 9: AUTONOMIC 2

Session chair: Edin Arnautovic

Coordinating Autonomous Agents for Force Protection Using Contract Net
Richard J. Martelli and Larbi Esmahi

A Nature-Inspired QoS Routing Algorithm for Next Generation Networks
Heesang Lee, Gyuwoong Choi, Hyunjoon Kim, and Kyuhong Lee

High-Level Modeling of Software-Management Interactions and Tasks for Autonomic Computing
Edin Arnautovic, Hermann Kaindl, Jürgen Falb, and Roman Popp

ICAS 10: SYSYAT 1

Session chair: Edward Stehle

Design of an Autonomic QoE Reasoner for Improving Access Network Performance
P. Simoens, S. Latré, B. De Vleeschauwer, W. Van de Meerssche, F. De Turck, B. Dhoedt P. Demeester, S. Van Den Berghe, and E. Gilon

A Distributed and Autonomic Virtual Network Mapping Framework
Ines Houidi, Wajdi Louati, and Djamal Zeglache

Task Dependency of User Perceived Utility in Autonomic VoIP Systems
Edward Stehle, Maxim Shevertalov, Paul deGrandis, Spiros Mancoridis, and Moshe Kam

Mobile Telephones Used as Boarding Passes: Enabling Technologies and Experimental Results
Tommy Bouchard, Mathieu Hémon, François Gagnon, Vivianne Gravel, and Olivier Munger

ICAS 11: SYSAT 2

Session chair: Pieter Simoens

Automation of Manual Tasks for Minimally Invasive Surgery
H. Mayer, I. Nagy, D. Burschka, A. Knoll, E. U. Braun, R. Lange, and R. Bauernschmitt

Towards Autonomic Service Control in Next Generation Networks
Andreas Klenk, Michael Kleis, Benoit Radier, Sanaa Elmoumouhi, Georg Carle, and Mikael Salaun

Towards an Adaptive Web Information System Based on Web Services
B. Soukkaieh and F. Sedes

ICNS 2008

ICNS 1: ENCOT 1

Session chair: Kevin Y. Ung

An XML Firewall on Embedded Network Processor
Wei Wang and Jun Li

A New Adaptive Transmission Scheduling in Packet Radio Networks
S. Madhavi

System for Automated Aircraft Seat Floatation Device Inspection
Arun Ayyagari, Craig F. Battles, Brian J. Smith, Stephen A. Uczekaj, and Kevin Y. Ung

Handling of Interference Using Power Penalty Analysis and Frequency Assignment Problem Approach in Communication
A. V. Kulkarni and Bhavna Ambudkar

Reliable Evidence of Data Integrity from an Untrusted Storage Service
Claudius Stern, Philipp Adelt, Volker Krummel, and Marcel R. Ackermann

ICNS 2: ENCOT 2

Session chair: Mohamad Chaitou

Environmental Monitoring Based on Emerging Wireless Technologies
P. Mariño, F. P. Fontán, M. A. Domínguez, and S. Otero

Multi-geocast Algorithms for Wireless Sparse or Dense Ad Hoc Sensor Networks
Nassima Hadid and Jean Frédéric Myoupo

Effairness: Dealing with Time in Congestion Control Evaluation
Sergey Gorinsky and Harrick Vin

Corouting: An IP Hybrid Routing Approach
Fadi Bizri and Brunilde Sansò

On Optimizing Leaf Initiated Point to Multi Point Trees in MPLS
Mohamad Chaitou and Jean-Louis Le Roux

ICNS 3: ENCOT 3

Session chair: Patryk Chamuczynski

An IMS Control and Access Layer PR-SCTP Based Network
E. Lopes Filho, G. T. Hashimoto, and P. F. Rosa

DiProNN: Distributed Programmable Network Node Architecture
Tomáš Rebok

VPN Analysis and New Perspective for Securing Voice over VPN Networks
Wafaa Bou Diab, Samir Tohme, and Carole Bassil

Performance Study of PANA Pre-authentication for Interdomain Handover
Patryk Chamuczynski, Omar Alfandi, Constantin Werner, Henrik Brosene, and Dieter Hogrefe

ICNS 4: ENCOT 4

Session chair: Lars Landmark

Integration of Broadband Wireless Technologies and PMR Systems for Professional Communications
Annalisa Durantini, Marco Petracca, Francesco Vatalaro, Alberto Civardi, and Fulvio Ananasso

Jitter-Buffer Management for VoIP over Wireless LAN in a Limited Resource Device
Mohsen Baratvand, Mahmoud Tabandeh, Arash Behboodi, and Ali Fotowat Ahmadi

Analysis of Scheduling Techniques in Distributed Parallel Environments Using Mobile Agents
Giuliana Marega Marques, Ricardo José Sabatine, and Kalinka R. L. J. Castelo Branco

Test-Bed Evaluation of Ingress Queuing for Improved Packet Delivery
Lars Landmark, Knut Øvsthus, and Øivind Kure

A New Neighbour Selection Strategy for Group-Based Wireless Sensor Networks
Miguel Garcia, Diana Bri, Fernando Boronat, and Jaime Lloret

ICNS 5: COMAN

Session chair: Pascal Lorenz

Traffic Distribution Forecasting in Packet-Switching Networks
Faramak Zandi

A Monte Carlo Method for Estimating the Extended All-Terminal Reliability
Shiang-Ming Huang, Quincy Wu, and Shi-Chun Tsai

Throughput Fairness Round Robin Scheduler for Non-Continuous Flows
Lijie Sheng, Haoyu Wen, and BaoBao Wang

Real-Time Market Model for Pricing Differentiated Services
Ruzana Davoyan and Jörn Altmann

Resource Management Considerations in Collector Overlay Networks
Mukundan Venkataraman, Shamik Sengupta, Mainak Chatterjee, and Raja Neogi

ICNS 6: EDNA

Session chair: Go Hasegawa

Characterization Framework and Design Patterns for the Disadvantaged User
Fatma Dandashi, Aaron Griggs, Jeffrey Higginson, James Hughes, Wilson Narvaez, Marwan Sabbouh, Salim Semy, and Beth Yost

Shared Sub-Path Protection Algorithm with Recovery Time Constraint in WDM Networks
Lei Guo, Xingwei Wang, Jin Cao, Lemin Li, Ting Yang, and Fei Yang

Emergency Communication Services Based on Overlay Networking Technologies
Go Hasegawa, Satoshi Kamei, and Masayuki Murata

ICNS 7: MPQSI

Session chair: Dominik Radziszowski

Initiator-Domain-Based SLA Negotiation for Inter-domain QoS-Service Provisioning
Cao Yuanming, Wang Wendong, Gong Xiangyang, and Que Xirong

SLA Monitoring and Management Framework for Telecommunication Services
Jacek Kosinski, Piotr Nawrocki, Dominik Radziszowski, Krzysztof Zielinski, Sławomir Zielinski, Grzegorz Przybylski, and Pawel Wnek

Definition and Evaluation of Penalty Functions in SLA Management Framework
Jacek Kosinski, Dominik Radziszowski, Krzysztof Zielinski, Sławomir Zielinski, Grzegorz Przybylski and Pawel Niedziela

ICNS 8: SERVI 1

Session chair: Martin Prangl

Personalizable Service Discovery in Pervasive Systems

Korbinian Frank, Vincenzo Suraci, and Jelena Mitic

Towards QoS Improvements of TCP-Based Media Delivery
Martin Prangl, Ingo Kofler, and Hermann Hellwagner

Enhancing User-Service Interaction through a Global User-Centric Approach to SOA
Javier Soriano, David Lizcano, Juan J. Hierro, Marcos Reyes, Christoph Schroth, and Till Janner

ICNS 9: SERVI 2

Session chair: Katia Sycara

Privacy Based Access to Parlay X Location Services
Nabil Ajam

Engineering Web Services by Exploiting Internet Middleware Capabilities
Dionisis X. Adamopoulos

Exception Handling and Recovery of Semantic Web Services
Roman Vaculin, Kevin Wiesner, and Katia Sycara

ICNS 10: GRIDS, IPDy and IPv6DFI

Session chair: Shingo Ata

Recursive Evaluation of Fault Tolerance Mechanisms for SLA Management
Kerstin Voss

Environment-Independent Online Real-Time Traffic Identification
Masaki Tai, Shingo Ata, and Ikuo Oka

Design and Implementation of an IPv6 Source Address Validation Device
Guang Yao and Jun Bi

Challenges of MPI over IPv6
Adrian Knoth, Christian Kauhaus, Dietmar Fey, Lars Schneidenbach, and Bettina Schnor

ICNS 11: NGNUS 1

Session chair: Ivar Jørstad

Meeting the Needs of Sophisticated Applications with Ubiquitous Computing Systems
Dionisis X. Adamopoulos

A Generic Approach to Access Network Modeling for Next Generation Network Applications
Joachim Fabini, Peter Reichl, and Alexander Poropatich

Security and Performance of Mobile XML Web Services
Thao Thanh Nguyen, Ivar Jørstad, and Do van Thanh

Using Queuing Network to Evaluate IXP2400 Based VoIP SPS
Jianmin Pang, Jiuzhen Jin, Rongcai Zhao, Zheng Shan, and Zheng Zhang

ICNS 12: NGNUS 2

Session chair: Pascal Lorenz

A Reconfigurable Charging Management Platform within the Adaptive Service Provisioning Architecture of NGN
Hao Zhu, Zhengkun Mi, and Rongqun Peng

Adaptive Service Provisioning through Context-Aware SIP Proxy
Tang Tang, Zhengkun Mi, and Rongqun Peng

Analysis of SIP-Based IMS Session Establishment Signaling for WiMax-3G Networks
Arslan Muni