



PROGRAM GUIDE

IEEE AINA-2012

The 26th IEEE International Conference on
Advanced Information Networking and Applications



March 26th - March 29th, 2012
Fukuoka Institute of Technology (FIT)
Fukuoka, JAPAN

Sponsored by:
IEEE Computer Society TCPD
In Cooperation with The Telecommunication Advancement
Foundation (TAF), Japan
and Fukuoka Institute of Technology, Japan



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Hiroaki Nishino, Oita University, Japan

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Kuo-Ming Chao, Coventry University, UK

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Joonsang Baek, Khalifa University of Science, Technology and Research, UAE
Stefan Sackmann, Martin Luther University, Halle, Germany

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Song Guo, The University of Aizu, Japan
Geyong Min, University of Bradford, UK

14. **Mobile Networks and Applications**
Agustinus Borgy Waluyo, Monash University, Australia
Fumio Teraoka, Keio University, Japan

15. **Dependable Systems and Autonomic Computing/Networking**
Elhadi Shakshuki, Acadia University, Canada
Tsang-Ling Sheu, National Sun Yat-Sen University, Kaoshiung, Taiwan

16. **Semantics in Collaborative Systems**
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Steering Committee Chair and Founder of AINA
Leonard Barolli, Fukuoka Institute of Technology, Japan
Steering Committee Co-Chair

Welcome Message from IEEE AINA-2012 Steering Committee Co-Chairs

Welcome to the 26th International Conference on Advanced Information Networking and Applications (AINA-2012). It is our great pleasure and honor to hold AINA-2012 at Fukuoka Institute of Technology (FIT), Fukuoka, Japan from March 26 to March 29, 2012. On behalf of the AINA Steering Committee and AINA-2012 Organizing Committee, we would like to express to all participants our cordial welcome and high respect.

AINA is an International Forum, where scientists and researchers from academia and industry working in various scientific and technical areas of networking and distributed computing systems can demonstrate new ideas and solutions in distributed computing systems. AINA was born in Asia 26 years ago and is now an international conference with high quality thanks to the great help and cooperation of many international friendly volunteers. AINA is an open society and is always welcoming international volunteers from any country and any area in the world.

In 2003, AINA-2003 was held very successfully in X'ian, China, with its present name. Before 2003, the conference name was ICOIN (International Conference on Information Networking). In 2003, we decided to change the name of the conference to AINA and also change the conference policy in order to make the conference more international. In addition, AINA is now an International Conference sponsored by IEEE Computer Society TCDP. From 2003, AINA editions are held in Fukuoka, Japan, 2004; Taipei, Taiwan, 2005; Vienna, Austria, 2006; Niagara Falls, Canada, 2007; Okinawa, Japan, 2008; Bradford, UK, 2009; Perth, Australia, 2010, and Singapore, 2011.

This year AINA-2012 will be held again at Fukuoka, Japan. Originally, we planned to hold AINA-2012 in Tokyo but decided to move to Fukuoka after the big earthquakes and Tsunami of March 11, 2011.

In conjunction with the AINA conference, we have also 17 International Workshops. In addition, AINA usually publish special issues in International Journals. Every author who attends AINA and presents the paper in the main conference and workshops can submit a revised version of the paper to one of the special issues.

An international conference can be organized by support and great voluntary efforts of many people and organizations and our main responsibility is to coordinate various tasks carried out with other willing and talented volunteers.

We would like to thank IEEE AINA-2012 General Co-Chairs Prof. Takuo Nakashima, Tokai University, Japan, Prof. Hui-Huang Hsu, Tamkang University, Taiwan, and Dr. Wenny Rahayu, La Trobe University, Australia, for very successful organization of AINA-2012.

We would like to express our special thanks to Dr. Tomoya Enokido, Risho University, Japan, Dr. Jong Hyuk Park, Seoul National University of Science and Technology, Korea, and Dr. Markus Alekxy, ABB AG, Germany for making excellent technical program as the Program Co-Chairs. Especially, we have special thanks to Dr. Tomoya Enokido, who really worked very hard for organization of AINA-2012.

We greatly appreciate Dr. Fatos Xhafa, Technical University of Catalonia, Spain, Prof. Minoru Uehara, Toyo University, Japan, Dr. David Taniar, Monash University, Australia, and Dr. Sang-Soo Yeo, Mokwon University, Korea for organizing 17 excellent workshops in conjunction with AINA-2012. Especially, we have special thanks to Dr. Fatos Xhafa for his leading role and efforts to invite many successful workshops.

We would like to thank also all track area chairs, program committee members, workshops organizers and workshops committee members for carefully reviewing the papers.

We have special thanks to Dr. Makoto Ikeda, Fukuoka Institute of Technology, Japan and Dr. Ailixier Aikebaier, Seikei University, Japan for excellent local arrangement and Web administration.

We would like to take opportunity to thank all members of the organization committee and program committee as well as all the reviewers for their hard work to make the reviews on time and authors for submitting the papers. We would like to give special thanks to our sponsors and supporters: IEEE Computer Society TCDP, the Telecommunication Advancement Foundation (TAF), Japan, for supporting IEEE AINA-2012.

We have special thanks to Fukuoka Institute of Technology (FIT) and especially Mr. Yoji Unoki, Chairman of Board of Trustees of FIT and the President of FIT Prof. Teruo Shimomura for hosting IEEE AINA-2012, providing the university facilities and their continuous support.

We would like to thank Fukuoka Convention Bureau and Fukuoka City for their kind support, help and advice for the local arrangement.

Finally, we would like to thank the Local Arrangement and the Administration Staff of Fukuoka Institute of Technology for their support and for making excellent local arrangement for the conference. We do hope that you will have a great time in Fukuoka.

IEEE AINA Steering Committee Co-Chairs

Makoto Takizawa, Seikei University, Japan
Leonard Barolli, Fukuoka Institute of Technology, Japan

Welcome Message from IEEE AINA-2012 General Co-Chairs

It is our great pleasure to welcome you all at the 26-th International Conference on Advanced Information Networking and Applications (AINA-2012). The conference will take place in Fukuoka Institute of Technology, Fukuoka, Japan from March 26 to March 29, 2012. IEEE AINA International Conference is a forum for sharing ideas and research work in the emerging areas of information networking and their applications.

The area of advanced networking has grown very rapidly and the applications around it have experienced an explosive growth especially in the area of pervasive and mobile applications, multimedia computing and social networking, semantic collaborative systems, as well as Grid, P2P and Cloud Computing. This advanced networking revolution is transforming the way people live, work, and interact with each other, and is impacting the way business, education, entertainment, and health care are operating. The papers included in the proceedings covers theory, design and application of computer networks, distributed computing and information systems.

Each year AINA has received a high number of submissions from all around the world, and maintained high quality accepted papers as it aspires to be one of the main international conferences on the Information Networking in the world. In conjunction with the AINA-2012 conference, there are 17 workshops, which also accepted high quality papers.

An international conference of this size requires the support and help of many people. A lot of people have helped and worked hard to produce a successful AINA-2012 technical program and conference proceedings. First, we would like to thank all the authors for submitting their papers, the session chairs and distinguished keynote speakers. We are indebted to Program Area Chairs, Program Committee Members, and reviewers who carried out the most difficult work of carefully evaluating the submitted papers.

We would like to give our special thanks to Prof. Makoto Takizawa and Prof. Leonard Barolli, Co-Chairs of the Steering Committee for their strong encouragement, guidance and insights, and for spending a lot of energy for conference organization and shaping the conference program. We would like to thank Dr. Tomoya Enokido, Prof. Jong Hyuk Park and Dr. Markus Aleksy for their great work as PC Co-Chairs. We would like to give our thanks also to Workshops Co-Chairs Dr. Fatos Xhafa, Prof. Minoru Uehara, Dr. David Taniar and Dr. Sang-Soo Yeo.

Our special thanks go to Dr. Ailixier Aikebaier for maintaining the conference Web site and to the students who have helped with the administration of paper submission and review process. Finally, we would like to thank the Local Arrangement Chairs for their great 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 Fukuoka, Japan.

IEEE AINA-2012 General Co-Chairs

Takuo Nakashima, Tokai University, Japan
Hui-Huang Hsu, Tamkang University, Taiwan
Wenny Rahayu, La Trobe University, Australia

Welcome Message from IEEE AINA-2012 Program Committee Co-Chairs

Welcome to the 26th International Conference on Advanced Information Networking and Applications (AINA- 2012), which will be held at Fukuoka Institute of Technology (FIT), Fukuoka, Japan, during March 26-29, 2012. The purpose of AINA conference is to bring together researchers, developers, and industrial experts to share new ideas and recent research results in the emerging areas of information networking and their applications. The papers included in the proceedings cover all aspects of theory, design, and application of computer networks and distributed computing systems. Most of the papers deal with new trends in information networking, such as wireless sensor networks, ad-hoc networks, cloud computing, peer-to-peer systems, grid computing, pervasive and ubiquitous systems, multimedia systems, security, multi-agent systems, high-speed networks, and web-based systems.

This edition AINA received 445 paper submissions from all over the world. Each submission was peerreviewed by program committee members or invited external reviewers. Finally, the program committee accepted 126 papers, which will be presented during the conference days. Unfortunately, many interesting and good papers could not be accepted in IEEE AINA-2012 due to the limited number of time slots allocated for presentations at the conference.

We are very proud and honored to have three distinguished keynote talks by Prof. Shoichi Noguchi, Sendai Foundation for Applied Information Sciences, Sendai, Japan, Dr. Fatos Xhafa, Technical University of Catalonia, Spain, and Dr. David Taniar, Monash University, Australia who will present their recent work and will give new insights and ideas to the conference participants.

Organizing an international conference of this size is of course a team effort. Therefore, we gladly admit that we had the help of many very professional people. First of all, we would like to thank all the authors for their interesting contributions since they shape the program and make it interesting for the audience. Moreover, we would like to express our thankfulness to all program-vice chairs Dr. Stephane Maag, Dr. Jung-Shian Li, Dr. Han-Chieh Chao, Dr. Sherali Zeadally, Dr. Whai-En Chen, Dr. Mikko Rissanen, Dr. Joseph Kee-Yin Ng, Dr. Vamsi Krishna Paruchuri, Dr. Hiroshi Shigeno, Dr. Cho-Li Wang, Dr. Anne Benoit, Dr. Weisong Shi, Dr. Akimitsu Kanzaki, Dr. Eric Pardede, Dr. Heinz Kredel, Dr. Hanh Le, Dr. Yuka Kato, Dr. Ralf Gitzel, Dr. Axel Korthaus, Prof. Takuo Suganuma, Dr. Changhoon Lee, Prof. Hiroaki Nishino, Dr. Giacomo Cabri, Prof. Kuo- Ming Chao, Dr. Taeshik Shon, Dr. Joonsang Baek, Dr. Stefan Sackmann, Dr. Song Guo, Dr. Geyong Min, Dr. Agustinus Borgy Waluyo, Dr. Fumio Teraoka, Dr. Elhadi Shakshuki, Dr. Tsang-Ling Sheu, Dr. Young-Sik Jeong, and Dr. Dumitru Roman for their great efforts. Additionally, we would like to thank all program committee members and reviewers who carried out the most important work to evaluate the submitted papers. We also thank the workshops chairs, Dr. Fatos Xhafa, Prof. Minoru Uehara, Dr. David Taniar, and Dr. Sang-Soo Yeo for organizing many excellent workshops and symposiums, which enrich the conference and provide additional opportunities for discussions and future co-operations.

The great success of the AINA conference series wouldnt be possible without the enormous commitment and support of the steering committee co-chairs, Prof. Makoto Takizawa and Prof. Leonard Barolli. Therefore, we would like to thank them for their strong encouragement and guidance. The general coordination of an event such as the AINA conference requires a lot of coordination effort as well as many other activities related to the conference organization. Here, we thank the general co-chairs Prof. Takuo Nakashima, Prof. Hui-Huang Hsu, and Dr. Wenny Rahayu for their great support and invaluable suggestions. We give special thanks to Dr. Makoto Ikeda and Dr. Ailixier Aikebaier for their great efforts and efficient work to deal with many conference matters.

Finally, we would like to give special thanks to our sponsors and supporters: IEEE Computer Society TCDP, the Telecommunication Advancement Foundation (TAF), Japan, and Fukuoka Institute of Technology for supporting IEEE AINA-2012.

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

IEEE AINA-2012 Program Committee Co-Chairs

Tomoya Enokido, Rissho University, Japan

Markus Aleksy, ABB Corporate Research, Germany

Jong Hyuk Park, Seoul National University of Science and Technology, Korea

Welcome Message from IEEE AINA-2012 Workshops Co-Chairs

Welcome to the Workshops of the 26th IEEE International Conference on Advanced Information Networking and Applications (IEEE AINA-2012) which will be held at Fukuoka Institute of Technology, Fukuoka, Japan during March 26-29, 2012.

We are pleased to notice that in response to our Call for Workshop Proposals we received 25 workshops proposals. The objective was to complement as much as possible the main themes of IEEE AINA-2012 with specific topics of different workshops. As a result, 17 workshops are organized in conjunction with AINA-2012 Conference.

The workshops are the following:

1. The Eighth International Symposium on Frontiers of Information Systems and Network Applications (FINA-2012)
2. The Eighth International Workshop on Heterogeneous Wireless Networks (HWISE- 2012)
3. The Seventh International Workshop on the Performance Analysis and Enhancement of Wireless Networks (PAEWN-2012)
4. The Sixth International Symposium on Security and Multimodality in Pervasive Environment (SMPE-2012)
5. The Fifth International Workshop on Data Management for Wireless and Pervasive Communications (DMWPC-2012)
6. The Fifth International Symposium on Mining and Web (MAW-2012)
7. The Fifth International Workshop on Telecommunication Networking, Applications and Systems (TeNAS-2012)
8. The Fifth International Workshop on Bio and Intelligent Computing (BICom-2012)
9. The Fourth International Workshop on Information Technology for Innovative Services (ITIS-2012)
10. The Fourth International Workshop on Disaster and Emergency Information Network Systems (IWDENS-2012)
11. The Third International Workshop on Cloud Computing, Services and Interoperability (CCSI-2012)
12. The Second International Workshop on Protocols and Applications with Multi- Homing Support (PAMS-2012)
13. The Second International Workshop on Complex Information Flows (CIF-2012)
14. The International Workshop on Bioinformatics and Life Science Modeling and Computing (BLSMC-2012)
15. The First International Workshop on inter-Clouds and Collective Intelligence (iCCI- 2012)
16. The 2012 International Symposium on Object-Oriented Intelligent Web Information Technologies and Applications (OIWITA-2012)
17. The International Workshop on Networked Virtual Enterprises (NetVE 2012)

The Workshop Co-Chairs would like to thank IEEE AINA-2012 International Conference Organizers for their help and support. We are grateful to the workshop organizers for their great efforts and hard work in proposing the workshop, selecting the papers, the interesting programs and for chairing the workshop sessions during the conference days. We wish you enjoy the workshops programs and the venue at FIT, Fukuoka, Japan.

IEEE AINA-2012 Workshops Co-Chairs

Fatos Xhafa, Technical University of Catalonia, Spain

Minoru Uehara, Toyo University, Japan

David Taniar, Monash University, Australia

Sang-Soo Yeo, Mokwon University, Korea

IEEE AINA-2012 Keynote I

Shoichi Noguchi, Sendai Foundation for Applied Information Sciences, Japan

The Design Principle of the Robust Information and Communication System under the Great Natural Disaster (Learning from East Japan Great Disaster)

Abstract: East Japan great disaster tell us the many unfavorable points of the present communication system. Learning from these facts, the design principle of the robust communication system is proposed utilizing the logical structure of the network.

IEEE AINA-2012 Keynote II

David Taniar, Monash University, Australia

High Performance Database Processing

Abstract: The sizes of databases have seen exponential growth in the past and such growth is expected to accelerate in the future, with the steady drop in storage cost accompanied by a rapid increase in storage capacity. To effectively manage such volumes of data, it is necessary to allocate multiple resources to it, very often massively so. The processing of databases of such astronomical proportions requires an understanding of how high performance systems and parallelism work. Besides the massive volume of data in the database to be processed, some data has been distributed across the globe in a Grid environment. This talk discusses fundamental understanding of parallelism in data-intensive applications, and demonstrates how to develop faster capabilities to support them.

IEEE AINA-2012 Keynote III

Fatos Xhafa, Universitat Politècnica de Catalunya, Spain

Data Replication and Synchronization in P2P Collaborative Systems

Abstract: Data replication and synchronomization techniques have recently attracted a lot of attention of researchers from P2P computing community. Such techniques are fundamental to increase data availabilty, however consistency becomes a main issue under highly dynamic nature of large P2P systems having also mobile peers. In this talk we will discuss data replication and synchronomization techniques for P2P super-peer collaborative systems. In such systems peers are organized in peergroups and collaborate together asynchronously to accomplish a common project by sharing documents and data. Some replication and synchronization techniques will be discussed in view of their suitability to supporting efficient group collaboration in P2P systems.



IEEE AINA-2012 Main Conference and Workshops Program

Monday, March 26, 2012

08:00 Registration

09:00-10:30 Single Session: Opening and Keynote I

IEEE AINA-2012 Keynote Talk I

Shoichi Noguchi: The Design Principle of the Robust Information and Communication System under the Great Natural Disaster (Learning from East Japan Great Disaster)

10:30-11:00 Coffee Break

11:00-12:30 Parallel Sessions

AINA-S1A: Internet Computing and Web Applications - Room 1

Chair: Yoshinari Nomura, Okayama University, Japan

1. Malicious Software Detection Using Multiple Sequence Alignment and Data Mining
Yi Chen, Ajit Narayanan, Shaoning Pang and Ban Ta
2. Elastic Application Container: A Lightweight Approach for Cloud Resource Provisioning
Sijin He, Li Guo, Yike Guo, Chao Wu, Moustafa Ghanem and Rui Han
3. ADEC: Assured Deletion and Verifiable Version Control for Cloud Storage
Shin Tezuka, Ryuya Uda and Kenichi Okada
4. A Distributed Service Framework for Integrating Robots with Internet Services
Sachiko Nakagawa, Naoto Ohyama, Kazuaki Sakaguchi, Hisashi Nakayama, Noboru Igarashi, Ryota Tsumoda, Shogo Shimizu, Masahiko Narita and Yuka Kato

AINA-S1B: Wireless Mesh Networks - Room 2**Chair: Isaac Woungang, Ryerson University, Canada**

1. A Rate Adaptive Admission Control Protocol for Multimedia Wireless Mesh Networks
Sanjay Kumar Dhurandher, Isaac Woungang, Kirti Kumar, Mamta Joshi and Monika Verma
2. Dynamic Link Quality Aware Routing Protocol for Multi-Radio Wireless Mesh Networks
Byoungheon Shin, Seon Yeong Han and Dongman Lee
3. Energy-Aware Link Scheduling Algorithms to Maximize Life Cycle of Relay Nodes on IEEE 802.16e Mesh Networks
Chien-Yu Wu, Hann-Jang Ho, Sing-Ling Lee and Shu-Jye Chang
4. Analysis and Countermeasure for Wormhole Attacks in Wireless Mesh Networks on a Real Testbed
Jie Zhou, Jiannong Cao, Jun Zhang, Chisheng Zhang and Yao Yu

AINA-S1C: Dependable and Fault Tolerant Systems - Room 3**Chair: Minoru Uehara, Toyo University, Japan**

1. Design and Implementation of MeshRAID with Multiple Parities in Virtual Large-Scale Disks
Minoru Uehara
2. Implementing Virtual Machine Replication: A Case Study using Xen and KVM
Darko Petrovic and Andre Schiper
3. Diversity-Based Approach For Managing Faults in Web Services
Hanane Abdeldjelil, Noura Faci, Zakaria Maamar and Djamel Benslimane
4. A Large Scale Robust Disaster information System based on Never Die Network
Noriki Uchida, Kazuo Takahata, Yoshitaka Shibata and Norio Shiratori

W-FINA-S1: Architectures and Middleware - Room 4**Chair: Markus Aleksy, ABB AG, Germany**

1. A Successful Implementation of Service Oriented Architecture
Tor-Morten Gronli and Bendik Bygstad
2. Workflow-Based Dynamic Access Control in a Service-Oriented Architecture
Gwan-Hwan Hwang, Chi Wu-Lee and Zhong-Xiang Jiang
3. WaterCOM: An Architecture Model of Context-oriented Middleware
Keling Da, Marc Dalmau and Philippe Roose
4. Middleware Software for Embedded Systems
Yang-Hsin Fan and Jan-Ou Wu

W-FINA-S2: Cryptography, Authentication and Security - Room 5**Chair: Ilsun You, Korean Bible University, South Korea**

1. A Reliable Dynamic User-Remote Password Authentication Scheme Over Insecure Network
Zhen-Yu Wu, Dai-Lun Chiang, Tzu-Ching Lin, Yu-Fang Chung and Tzer-Long Chen
2. Security Philosophy Important for a Sustainable Smart Grid System
Amy Poh Ai Ling, Sugihara Kokichi and Mukaidono Masao
3. Source Code Publishing on World Wide Web
Tsunetoshi Hayashi
4. Privacy Protection on Transfer System of Automated Teller Machine from Brute Force Attack
Sho Kurita, Kenji Komoriya and Ryuya Uda

W-HWISE-S1: Context Aware Middleware for Ubiquitous Computing Environments - Room 6**Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. Experiences from Context-aware Services in the Real World (Invited Talk)
Ichiro Satoh
2. Hermes - a Context-Aware Application Development Framework and Toolkit for the Mobile Environment
Senaka Buthpitiya, Bo Xing, Faisal Luqman, Martin Griss, Anind Dey
3. Semantic Context Reasoning for Formulating User Location
Franois Toutain, Fano Ramparany, Ewelina Szczekocka

W-MAW-S1: Clustering and Classification - Room 7**Chair: Kosuke Takano, Kanagawa Institute of Technology, Japan**

1. Nearest Neighbor Classification by Partially Fuzzy Clustering
Lifei Chen, Gongde Guo, Shengrui Wang
2. Link Prediction in Social Network Using Co-clustering based Approach
Elham Hoseini, Sattar Hashemi, Ali Hamzeh
3. Detection Method of Blog Spam Based on Categorization and Time Series Information
Toshio Teraguchi, Kenji Nakamura, Shigenori Tanaka, Koichi Kitano

W-iCCI-S1: Efficient Resource Management and Allocation - Room 8**Chair: Makoto Nakashima, Oita University, Japan**

1. Bid-Proportional Auction for Resource Allocation in Capacity-constrained Clouds
Chih-Wei Tsai and Zsehong Tsai
2. An Architectural Strategy for Meta-scheduling in Inter-clouds
Nik Bessis, Stelios Sotiriadis, Florin Pop and Valentin Cristea
3. Latency based Dynamic Grouping aware Cloud Scheduling
Sheheryar Malik, Fabrice Huet and Denis Caromel
4. A Sophisticated Ad Hoc Cloud Computing Environment Built by the Migration of a Server to Facilitate Distributed Collaboration
Tatsuya Mori, Makoto Nakashima and Tetsuro Ito

12:30-14:00 Lunch Break**14:00-15:30 Parallel Sessions****AINA-S2A: Mobile and Ad Hoc Networks - Room 1****Chair: Nabuo Funabiki, Okayama University, Japan**

1. Impact of Multi-flow Traffic in Wireless Mobile Ad-hoc Networks
Makoto Ikeda, Elis Kulla, Masahiro Hiyama, Leonard Barolli and Makoto Takizawa
2. Performance Comparison of DSDV and DYMO Protocols for Vehicular Ad hoc Networks
Evojola Spaho, Makoto Ikeda, Leonard Barolli, Fatos Xhafa, Aleksander Biberaj and Jiro Iwashige
3. Shortcut Anycast Tree Routing in MANETs
Shyr-Kuen Chen and Pi-Chung Wang
4. Proportionally Quasi-Fair Scheduling Optimization in Wireless Ad Hoc Networks
Dang-Quang Bui and Won-Joo Hwang

AINA-S2B: Energy-Efficient Wireless Networks - Room 2**Chair: Tomoya Enokido, Rissho University, Japan**

1. Energy-efficient Update Protocols for Mobile User Context
Stefan Fll, Klaus Herrmann and Kurt Rothermel
2. TARS: An Energy-Efficient Routing Scheme for Wireless Sensor Networks with Mobile Sinks and Targets
Yuan-Po Chi and Hsung-Pin Chang
3. PSense: Reducing Energy Consumption in Public Sensing Systems
Patrick Baier, Frank Drr and Kurt Rothermel
4. Reliable Energy Aware Multi-Token Based MAC Protocol for WSN
Subhasis Dash, Amulya Ratna Swain and Anuja Ajay

AINA-S2C: Intelligent Systems and Applications - Room 3**Chair: Giacomo Cabri, University of Modena and Reggio Emilia, Italy**

1. On-demand Data Numerosity Reduction for Learning Artifacts
Khamisi Kalegele, Hideyuki Takahashi, Johan Sveholm, Kazuto Sasai, Gen Kitagata and Tetsuo Kinoshita
2. Fuzzy-based Actuators Controlling for Minimizing Power Consumption in Cyber-Physical System
Sheng-Tzong Cheng and Ju-Hsien Chou
3. Combination of Multiple Retrieval Systems Using Rank-Score Function and Cognitive Diversity
Hongzhi Liu, Zhonghai Wu and Frank Hsu

W-FINA-S3: Wireless and Mobile Network Applications - Room 4**Chair: Yoshitaka Shibata, Iwate Prefectural University, Japan**

1. An Input Method for High-resolution Large 2D Desktop Environment Using Wireless Device with Joystick
Akira Sakuraba, Tomoyuki Ishida and Yoshitaka Shibata
2. Separator Design of Gesture Signals Based on Adaptive Threshold Using Wearable Sensors
Yinghui Zhou, Lei Jing, Junbo Wang and Zixue Cheng
3. SHAWK: Platform for Secure Integration of Heterogeneous Advanced Wireless Networks
Jiannong Cao, Chisheng Zhang, Jun Zhang, Yueming Deng, Xin Xiao, Miao Xiong, Jie Zhou, Yang Zou, Gang Yao, Wei Feng, Liang Yang and Yao Yu
4. Measurement of Active Quantity of The Subject Movement and Design Surveillance Camera System using High Active Part
Miwa Takai

W-FINA-S4: Privacy and Information Poisoning - Room 5**Chair: Jong Hyuk Park, Seoul National University of Science and Technology, Korea**

1. How to Preserve Privacy in Services Interaction
Salah-Eddine Tbahriti, Brahim Medjahed, Zaki Malik, Chirine Ghedira and Michael Mrissa
2. Confidential Information Poisoning Methods by Considering the Information Length in Electronic Portable Devices
Junya Ishii, Razali Afiza and Ryuya Uda
3. A Study of Efficiency and Accuracy of Secure Multiparty Protocol in Privacy-Preserving Data Mining
Sin Teo, Vincent Lee and Shugo Han

W-HWISE-S2: Sensor and Ad-Hoc Applications - Room 6**Chair: Hiroshi Shigeno, Keio University, Japan**

1. A Cluster Allocation and Routing Algorithm based on Node Density for Extending the Lifetime of Wireless Sensor Networks
Bo-Si Lee, Hao-Wei Lin and Wernhuar Tarnq
2. Secure Authentication Scheme for Supporting Healthcare in Wireless Sensor Networks
Tsung-Chih Hsiao, Yu-Ting Liao, Jen-Yan Huang, Tzer-Shyong Chen and Gwo-Boa Horng
3. Simultaneous Estimation of the Number of Humans and their Movement Loci in a Room using Infrared Sensors
Yuki Kasama and Toshiaki Miyazaki
4. CDS-Based Routing Scheme Considering Node Properties in Triage Network
Yuto Toguchi and Hiroshi Shigeno

W-MAW-S2: Information Retrieval - Room 7**Chair: Shengrui Wang, University of Sherbrooke, Canada**

1. Fusion of News Reports using Surface-Based Methods
Joel Azzopardi, Christopher Staff
2. Aggnel: An information aggregation system of partial contents from multiple Web pages
Yuichiro Tasaki, Tomohiro Fukuhara, Tetsuji Satoh
3. FODEX Towards Generic Data Extraction from Web Forums
Sebastian Pretzsch, Klemens Muthmann, Alexander Schill

W-iCCI-S2: Efficient Data Management and Allocation - Room 8**Chair: Fatos Xhafa, Technical University of Catalonia, Spain**

1. Resource-aware Density-and-grid-based Clustering in Ubiquitous Data Streams
Ching-Ming Chao and Guan-Lin Chao
2. Optimal Data Allocation for Keeping Fairness of Online Game
Masaki Kohana, Shusuke Okamoto and Atsuko Ikegami
3. Organizational Pattern Discovery Linked to Activities
Serguei Dobrinevski

15:30-16:00 Coffee Break**16:00-17:30 Parallel Sessions****AINA-S3A: Distributed Database and Data Mining - Room 1****Chair: Wenny Rahayu, La Trobe University, Australia**

1. MIXED-LSH: Reduction of Remote Accesses in Distributed Locality-Sensitive Hashing based on L1-distance
Hisashi Koga, Masayuki Oguri and Toshinori Watanabe
2. Auto Determining Parameters in Class-association Mining
Viet Phan-Luong
3. Recommendation of More Interests Based on Collaborative Filtering
Qian Wu, Feilong Tang, Li Li, Leonard Barolli, Ilsun You, Yi Luo and Huakang Li
4. An Interactive Region-Based Filter for Moving Objects Datasets: Making Sense of Chaos
Jason Thompson, Wenny Rahayu and Torab Torabi

AINA-S3B: Ad Hoc Networks and Routing - Room 2**Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. Evaluation of a MANET Testbed in Outdoor Bridge Environment Using BATMAN Routing Protocol
Elis Kulla, Makoto Ikeda, Tetsuya Oda, Leonard Barolli, Fatos Xhafa and Aleksander Biberaj
2. Efficient Route Discovery and Repair in Mobile Ad-hoc Networks
Po-Jen Chuang, Po-Hsun Yen and Ting-Yi Chu
3. A Node-Disjoint Multipath Routing Method based on AODV protocol for MANETs
Chhagan Lal, V Laxmi and Manoj Singh Gaur
4. Assessing the Expected Performance of the OLSR Routing Protocol for Denser Urban Core Ad Hoc Network Deployments
Deepali Arora, Eamon Millman and Stephen Neville

AINA-S3C: Pervasive/Ubiquitous Computing and Services - Room 3**Chair: Takahiro Hara, Osaka University, Japan**

1. Uncertain Low Penetration Rate – A Practical Issue in Mobile Intelligent Transportation Systems
Minh Quang Tran, Muhammad Ariff Baharudin and Eiji Kamioka
2. How Does Mobile Context Affect Peoples Web Search Behavior?: A Diary Study of Mobile Information Needs and Search Behaviors
Daijiro Komaki, Takahiro Hara and Shojiro Nishio
3. On Co-Scheduling of Periodic Update and Application Transactions with Fixed Priority Assignment for Real-Time Monitoring
Jiantao Wang, Kam-Yiu Lam, Song Han, Sang H Son and Aloysius K. Mok
4. A WLAN Location Estimation System using Center of Gravity as an Algorithm Selector for enhancing Location Estimation
Quan Jia Cheng, Joseph Kee-Yin Ng and Kevin Chin Yiu Shum

W-FINA-S5: Video Streaming and Life Streaming - Room 4**Chair: Hiroshi Shigeno, Keio University, Japan**

1. Multidimensional QoE Assessment of Multi-View Video and Audio (MVV-A) IP Transmission: The Effects of User Interfaces and Contents
Erick Jimenez Rodriguez, Toshiro Nunome and Shuji Tasaka
2. Proposal and Evaluation of User's Actions Distribution Method using Life Streaming Service on Lifelog System
Iori Osada and Takashi Yoshino
3. Neighbor Selection Based On Transmission Bandwidth on P2P Live Streaming Service
Kazuyuki Takayama, Takaya Fujimoto, Rei Endo and Hiroshi Shigeno
4. Scalable Secure MJPEG Video Streaming
Lei Chen, Narasimha Shashidhar and Qingzhong Liu
5. A Robust Video Super-Resolution Using A Recursive Leclerc Bayesian Approach with An OFOM (Optical Flow Observation Model)
Parinya Sanguansat, Kornkamol Thakulsukanant and Vorapoj Patanavijit

W-FINA-S6: Intrusion Detection and Blind Signature - Room 5**Chair: Sang-Soo Yeo, Mokwon University, Korea**

1. A Realistic Experimental Comparison of the Suricata and Snort Intrusion-Detection Systems
Eugene Albin and Neil Rowe

2. Certificateless Partially Blind Signature
Jingwei Liu, Zonghua Zhang, Rong Sun and Kyung Sup Kwak
3. Personal Profile for Coping Behavior In Virus Infected Situation
Shun-Ichi Kurino, Noriaki Yoshikai and Toshio Takahashi

W-HWISE-S3: Ad-Hoc Networks - Room 6**Chair: Joni Fraga, Universidade Federal de Santa Catarina, Brasil**

1. E2SIW: An Energy Efficient Scheme Immune to Wormhole Attacks in Wireless Ad Hoc Networks
Sanjay Kumar Dhurandher, Isaac Woungang, Abhishek Gupta and Bharat K. Bhargava
2. A Distributed IDS for Ad Hoc Networks
Paulo Mafra, Joni Fraga and Altair Santin
3. JOMS: a Java Message Service Provider for Disconnected MANETs
Abdulkader Benchi, Frederic Guidic and Pascale Launay
4. AdSIP: Decentralized SIP for Mobile Ad hoc Networks
Said Yahiaoui, Yacine Belhoul, Nadia Taboudjemat-Nouali and Hamamache Kheddouci

W-MAW-S3: Feature Extraction and Representation - Room 7**Chair: Kin Fun Li, University of Victoria, Canada**

1. Integration of novel image based features into Markov Random Field Model for information retrieval
Sheikh Sarwar, Mosaddek Kamal
2. Classifying sports gesture using event-based matching in a multimedia e-learning system
Kosuke Takano, Kin Fun Li

W-iCCI-S3: Added Value for Inter-enterprises - Room 8**Chair: Fatos Xhafa, Technical University of Catalonia, Spain**

1. Value Creation using Clouds
Andreas Mladenow, Elisabeth Fuchs, Paul Dohmen and Christine Strauss
2. Enterprise 2.0 Integrated Communication and Collaboration Platform - A Conceptual Viewpoint
Martin Polaschek, Wolfgang Zeppelzauer, Natalia Kryvinska, Christine Strauss
3. Exploration of Factors Affecting the Advancement of Collaborative eBusiness in the Enterprises - Research Efforts Examination
O. Urikova, I. Ivanochko, N. Kryvinska, C. Strauss, P. Zinterhof

Tuesday, March 27, 2012

08:00 Registration

09:00-10:30 Single Session: Keynote II

IEEE AINA-2012 Keynote Talk II

David Taniar: High Performance Database Processing

10:30-11:00 Coffee Break

11:00-12:30 Parallel Sessions

AINA-S4A: Intelligent Computing and Networks - Room 1

Chair: Giacomo Cabri, University of Modena and Reggio Emilia, Italy

1. An Quantum Improved Genetic Algorithm for Operon Prediction
Li-Yeh Chuang, Yi-Cheng Chiang and Cheng-Hong Yang
2. Layer Partitioned Search Tree For Packet Classification
Yeim-Kuan Chang and Chao-Yen Chien
3. Chaos Embedded Particle Swarm Optimization for Tag Single Nucleotide
Li-Yeh Chuang, Wei-Li Huang and Cheng-Hong Yang
4. Mixed observability Markov Decision Processes for Overall Network Performance Optimization in Wireless Sensor Networks
Daniel Laszlo Kovacs, Wuyungerile Li, Naoki Fukuta and Takashi Watanabe

AINA-S4B: Communication Systems - Room 2

Chair: Fatos Xhafa, Technical University of Catalonia, Spain

1. Evaluation of Genetic Algorithms of a GA for Ground Station Scheduling
Fatos Xhafa, Junzi Sun, Admir Barolli, Makoto Takizawa and Kazunori Uchida
2. Upload Cache in Edge Networks
Yuncheng Zhu and Akihiro Nakao
3. Temporary Call-back Telephone Number Service
Ming-Feng Chang and Chi-Hua Chen
4. An Architecture for Heterogeneous Data Dissemination Using IMS
Raymond Peterkin and Dan Ionescu

AINA-S4C: Distributed Systems and Networking - Room 3

Chair: Markus Aleksy, ABB Corporate Research, Germany

1. Trying to Unify the LL/SC Synchronization Primitive and the Notion of a Timed Register
Damien Imbs and Michel Raynal
2. Experimental Evaluation of Alkaline Batteries Capacity for Low-Power Consuming Applications
Konstantin Mikhaylov and Jouni Tervonen
3. Time-Dependent Execution Pattern
Markus Aleksy and Axel Korthaus

4. Realizing Global Synchronizations for Large-Scale Locally-Connected Two-Dimensional Rectangle Cellular Arrays
Hiroshi Umeo

W-FINA-S7: Web-based Systems and Ontologies - Room 4**Chair: David Taniar, Monash University, Australia**

1. Social Indexing of TV Programs: Detection and Labeling of Significant TV Scenes by Twitter Analysis
Masami Nakazawa, Maïke Erdmann, Keiichiro Hoashi and Chihiro Ono
2. Consumer Opinions on Short-Interval Charging for Pay-TV over IPTV
Tolga Arul and Abdulhadi Shoufan
3. Automatic Web-based EFP Studio System with XML Documents
Wei Chen and Rong-Chi Chang
4. Design and Implementation of an Ontology-based Intelligent Project Management System
Ko-Wei Huang, Wei-Chung Cheng, Chun-Wei Tsai and Chu-Sing Yang

W-FINA-S8: Secure Networks and Systems - Room 5**Chair: Feilong Tang, Shanghai Jiao Tong University, China**

1. A Security Enhancement on A Remote User Authentication Scheme Based on the Rabin Cryptosystem with Secure Password Updating
Wei-Liang Tai, Ya-Fen Chang, Yuan-Fu Li and Shun-Meng Pan
2. Effective Network Defense Strategies against Malicious Attacks with Various Defense Mechanisms under Quality of Service Constraints
Frank Yeong-Sung Lin, Yu-Shun Wang, Yu-Pu Wu and Chia-Yang Hsu
3. Symbolic Analysis of Proposed UDT Security Architecture
Danilo Valeros Bernardo and Doan B Hoang
4. CCA-secure Anonymous Multi-receiver ID-based Encryption
Yuh-Min Tseng, Yi-Hung Huang and Hui-Ju Chang

W-HWISE-S4: Mesh Networks - Room 6**Chair: Nobuo Funabiki, Okayama University, Japan**

1. A Proposal of CSMA Fixed Backoff-time Switching Protocol and Its Implementation on QualNet Simulator for Wireless Mesh Networks
Sritrusta Sukaridhoto, Nobuo Funabiki, Toru Nakanishi and Kan Watanabe
2. Investigation into Batmand-0.3.2 Protocol Performance in an Indoor Mesh Potato Testbed
Edmundo Chissungo, Edwin Blake and Hanh Le
3. Multi-Channel Wireless Mesh Networks Test-bed with Embedded Systems
Jun Huy Lam, Sang-Gon Lee and Whye Kit Tan
4. Location Information System for Access Points in the Heterogeneous Wireless Environment
Kei Kikuchi, Yoshitoshi Murata, Goutam Chakraborty, Tsuyoshi Takayama and Nobuyoshi Sato

W-MAW-S4: Text Mining - Room 7**Chair: Hui-Huang Hsu, Tamkang University, Taiwan**

1. Ontology based Qualitative Methodology for Chinese Language Analysis
Dong Han, Kilian Stoffel
2. Development of Topic Navigation System for Assisting Searches on the Web
Toshihiro Ishikawa, Yasuhiro Yamada

3. GPU Accelerated Hot Term Extraction from User Generated Content
Ming-Fung Cheng, Fu-Lai Chung, Siu-Nam Chuang
4. Bio Named Entity Recognition Based on Co-Training Algorithm
Tsendsuren Munkhdalai, Meijing Li, Taewook Kim, Oyun-Erdene Namsrai, Seon-phil Jeong, Jungpil Shin, Keun Ho Ryu

W-iCCI-S4: Performance Analysis - Room 8**Chair: Takuo Nakashima, Tokai University, Japan**

1. Performance Analysis of Oracle Database in Virtual Environment
Fares N. Almari, Pavol Zavarsky, Ron Ruhl, Dale Lindskog, Amer Aljaedi
2. Adaptive Diagnosis for Grids Under the Comparison Model
Hong-Chun Hsu and Pao-Lien Lai
3. Near-Real-Time Cloud Auditing for Rapid Response
Joon Park, Edward Spetka, Hassan Rasheed, Paul Ratazzi and Keesook Han
4. Performance Measurements in iVIC Virtual Machine Clones
James Hardy, Lu Liu, Nik Bessis, Lei Cui and Jianxin Li

12:30-14:00 Lunch Break**14:00-15:30 Parallel Sessions****AINA-S5A: Semantics Computing and Networks - Room 1****Chair: Wenny Rahayu, La Trobe University, Australia**

1. A Semantic Framework for the Management of Enriched Provenance Logs
Mohamed Amin Sakka, Bruno Defude and Jorge Tellez
2. Goal-based Policies for Self-Protecting Systems
Julian Schtte
3. Semantic Uplift of Monitoring Data to Select Policies to Manage Home Area Networks
Annie Ibrahim Rana and Brendan Jennings
4. Semantics-Aware Storage and Replication of Trust Metadata in Mobile Ad-Hoc Networks
Vivek Natarajan, Sencun Zhu, Mudhakar Srivatsa and Jeff Opper

AINA-S5B: Communication Protocols - Room 2**Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. A Channel Quality Aware Algorithm for IEEE 802.16 Uplink Burst Construction
Yuan-Cheng Lai, Yen-Hung Chen and Ching-Neng Lai
2. Utilization-based Congestion Control: Improvement of Friendliness with TCP over Wireless Links
Satoshi Utsumi and S. M. Salim Zabir
3. A Bandwidth Negotiation Scheduling for Prioritized Traffic in MMR Networks
Yan-Jing Wu, Tsang-Ling Sheu and I-Chieh Lin
4. A New Loss Recovery Algorithm for Increasing the Performance of TCP Over Wireless Mesh Networks
Prasanthi S, Sang-Hwa Chung and Yong-Hyun Jo

AINA-S5C: P2P Networks and Applications - Room 3**Chair: Heinz Kredel, University of Mannheim, Germany**

1. File Management in a Mobile DHT-based P2P Environment
Khalid Ashraf, Rachid Anane and Behzad Bordbar
2. Collaborative Admission Control Scheme for Group-Based P2P Contents Sharing Systems
Kazuma Kadowaki and Satoshi Fujita
3. On Randomness in ISP-friendly P2P Applications
Saif Shams, Paal E. Engelstad and Amund Kvalbein
4. Optimized Range Queries for Large Scale Networks
Nicolas Hidalgo, Erika Rosas, Luciana Arantes, Olivier Marin, Pierre Sens and Xavier Bonnaire

W-FINA-S9: Multimedia Applications - Room 4**Chair: Xavier Defago, Japan Advanced Institute of Science and Technology, Japan**

1. Statistical Single-Document Summarization for Chinese News Articles
Jeng-Haur Wang and Jeng-Yuan Yang
2. A Fast and Robust Optimistic Total Order Broadcast for Online Video Games
Samuel Bernard, Xavier Defago and Sebastien Tixeuil
3. Supporting Efficient XML Query Evaluation Using Double Indexes
Wen-Chiao Hsu, I-En Liao and Pei-Hua Lu
4. Multiview Playback with Ghost in Required Condition
Yoshiyuki Tanaka, Kenji Komoriya and Ryuya Uda

W-FINA-S10: Clustering and Grouping - Room 5**Chair: Hanh Le, University of Cape Town, South Africa**

1. Clustering Between Data Mules for Better Message Delivery
Xoluqobo Mkhwanazi, Hanh Le and Edwin Blake
2. Test Coverage Optimization for Large Code Problems
Ying-Dar Lin, Chi-Heng Chou, Yuan-Cheng Lai, Tse-Yau Huang, Simon Chung, Jui-Tsun Hung and Frank C. Lin
3. Session Level Flow Classification by Packet Size Distribution and Session Grouping
Chun-Ying Huang, Ying-Dar Lin, Yuan-Cheng Lai

W-HWISE-S5: Security Issues in Ad-Hoc and Sensor Networks - Room 6**Chair: Tomoyuki Nagase, Hirosaki University, Japan**

1. Membership Models and the Design of Authentication Protocols for MANETs
Soumyadev Maity and R. C. Hansdah
2. An Intrusion and Random-Number-Leakage Resilient Scheme in Mobile Unattended WSNs
Tatsuro Iida, Keita Emura, Atsuko Miyaji and Kazumasa Omote
3. Mutual Authentication Protocol for Enhanced RFID Security and Anti-Counterfeiting
Tae Yong Kim and Hoon Jae Lee
4. Building Trust among Certificate Management Nodes in Mobile Ad-Hoc Network
Yojiro Takehana, Ichiro Nishimura, Norihito Yosaka, Tomoyuki Nagase and Yoshio Yoshioka

W-MAW-S5: Behavior Models - Room 7**Chair: Hayato Yamana, Waseda University, Japan**

1. Social Network Discovery from Multiple Log Data through a Behavior Model
Tomonobu Ozaki, Minoru Etoh
2. Privacy-preserving Set Operations in the Presence of Rational Parties
Atsuko Miyaji, Mohammad Rahman
3. Emotion Care Services with Facebook Wall Messages
Hui-Huang Hsu, Yu-Fan Chen, Chi-Yi Lin, Cheng-Wei Hsieh, Timothy K. Shih

W-iCCI-S5: Games, Social Networks and Collaboration - Room 8**Chair: Fatos Xhafa, Technical University of Catalonia, Spain**

1. Improving Recommendation Flow with Centrality Measure in an Evolving Social Network
Somayeh Koohborfardhaghghi and Juntae Kim
2. It is not a Game, not even Social: New Service Engineering Paradigms from Lessons Learned in Mobile Social Games in Japan
Toshihiko Yamakami
3. Collaborative Context Experience in a Phonebook
Michal Szczerbak, Francois Toutain, Ahmed Bouabdallah and Jean-Marie Bonnin
4. Management of Multimedia Data for Streaming on a Distributed e-Learning System
Tadafumi Hayakawa, Masayuki Higashino, Kenichi Takahashi, Takao Kawamura and Kazunori Sugahara

15:30-16:00 Coffee Break**16:00-17:30 Parallel Sessions****AINA-S6A: Wireless Sensor Networks and Applications - Room 1****Chair: Kazunori Uchida, Fukuoka Institute of Technology, Japan**

1. A Scalable WSN based Data Center Monitoring Solution With Probabilistic Event Prediction
Sunil Kumar Vuppala, Animikh Ghosh, Ketan Patil and Kumar Padmanabh
2. Effect of Population Size for Node Placement in WMNs Considering Giant Component and Number of Covered Users Parameters
Tetsuya Oda, Admir Barolli, Evjola Spaho, Fatos Xhafa, Leonard Barolli, Makoto Takizawa and Kazunori Uchida
3. Reliable Wildfire Monitoring with Sparsely Deployed Wireless Sensor Networks
Ikjune Yoon, Dong Kun Noh, Dongeun Lee, Rony Teguh, Toshihisa Honma and Heonshik Shin

AINA-S6B: Mobile Networks and Applications - Room 2**Chair: Hwee-Pink Tan, Institute for Infocomm Research, Singapore**

1. Zero Scanning Time for 802.11 Networks by Using Media Independent Information Server (MIIS)
Muhammad Qasim Khan and Steinar Andresen
2. Channel Orthogonalization (CO) and its combination with THP(CO-THP) for Multiuser MIMO Systems
Liang Zhou, Xiaohui Li, Yongqiang Hei and Weiyi Yin

3. MOS-based Handover Protocol for Next Generation Wireless Networks
Sheetal Jadhav, Haibo Zhang and Zhiyi Huang
4. Evaluations of Ant Colony Optimization Inspired SCTP Optimal Path Selection using E-Model
Muhammad Ariff Bin Baharudin, Minh Quang Tran and Kamioka Eiji

AINA-S6C: Trust and Security - Room 3**Chair: Farookh Hussain, University of Technology Sydney, Australia**

1. A Differential Game Approach to Mitigating Primary User Emulation Attacks in Cognitive Radio Networks
Dong Hao and Kouichi Sakurai
2. Personalizing EigenTrust in the face of Communities and Centrality Attack
Nitin Chiluka, Nazareno Andrade, Dimitra Gkorou and Johan Pouwelse
3. Uncertainty in Probabilistic Trust Models
Sadegh Dorri Nagoorani and Rasool Jalili
4. Trust-based Security for Community-based Cognitive Radio Networks
Sazia Parvin and Farookh Hussain

W-FINA-S11: Multimedia Systems - Room 4**Chair: Hiroaki Nishino, Oita University, Japan**

1. DOACOM: Video Chat System Using Door-type Interface
Takashi Yoshino and Shingo Fujita
2. Preventing Surreptitious Filming by Saturation Irradiation of Infrared Rays
Fumiaki Murakami, Kenji Komoriya, Ryuya Uda, Seiichi Gohshi and Isao Echizen
3. An Automotive Side-View System based on Ethernet and IP
Alexander Camek, Christian Buckl, Pedro Sebastiao Correia and Alois Knoll
4. Empirical Study on Performance Comparisons of Block-Based Motion Estimation on Multi Sub-Pixel Displacement with Multiples Block Size
Darun Kesrarat and Vorapoj Patanavijit
5. Virtual Reality in College English Curriculum. Case Study of Integrating Second Life in Freshman English Course
Liang-Yi Chung

W-FINA-S12: Network Simulation, Analysis and Performance Evaluation - Room 5**Chair: Nobuyoshi Sato, Iwate Prefectural University, Japan**

1. An International Driving Simulator
Shinya Saito, Yoshitoshi Murata, Tsuyoshi Takayama and Nobuyoshi Sato
2. A Coverage-driven Verification Platform for Evaluating NoC Performance and Test Structure
Ying Zhang, Ning Wu, Xiazhi Ke and Fen Ge
3. Probabilistic Replica Allocation in Multihop Networks
Munehiro Namba and Yoshiya Nakata
4. CubeCuts: A Novel Cutting Scheme for Packet Classification
Yeim-Kuan Chang and Yu-Hsiang Wang

W-HWISE-S6: Vehicular Networks - Room 6**Chair: Bhed Bhadur Bista, Iwate Prefectural University, Japan**

1. Data Scheduling for Multi-item Requests in Vehicle-Roadside Data Access with Motion Prediction Based Workload Transfer
Yiqing Gui and Edward Chan
2. Comparison of Strategies for Data Replication in VANET Environment
Jan Janech, Anton Lieskovsky and Emil Krsak
3. An RSU-assisted Cluster Head Selection and Backup Protocol
Lin Sun, Ying Wu, Jingdong Xu and Yuwei Xu
4. Designing and Prototyping a Middleware for Vehicular Networks
Giuseppe Ciaccio and Vittoria Gianuzzi

W-NetVE-S1: Networked Virtual Enterprises - Room 7**Chair: Huu Hanh Hoang, University of Hue, Vietnam**

1. Collaborative Process Management for the Networked Enterprise: A Case Study
Ugo Barchetti, Antonio Capodieci, Anna Lisa Guido and Luca Mainetti
2. Managing Trust in Business Webs using Game Theory
Hassan Fatemi, Marten Van Sinderen and Roel Wieringa
3. An Ontological Approach for Dynamic Cross-Enterprise Collaboration
Minh Vu Hoang and Huu Hanh Hoang

W-iCCI-S6: Security and Services - Room 8**Chair: Fatos Xhafa, Technical University of Catalonia, Spain**

1. Privacy-Preserving DRM for Cloud Computing
Ronald Petrlc and Christoph Sorge
2. SAPSC: Security Architecture of Private Storage Cloud Based on HDFS
Qingni Shen, Yahui Yang, Zhonghai Wu, Xin Yang, Lizhe Zhang, Xi Yu, Zhenming Lao, Dandan Wang, Min Long
3. Cloud to Device Push Messaging on Android: a Case Study
Jarle Hansen, Tor-Morten Gronli and Gheorghita Ghinea
4. Towards a Framework for Context-Aware Services Management
Wei Dai, Jonathan J. Liu and Axel Korthaus

19:00-21:00 Welcome Reception Party

Wednesday, March 28, 2012

08:00 Registration

09:00-10:30 Single Session: Keynote III

IEEE AINA-2012 Keynote Talk III

Fatos Xhafa: Data Replication and Synchronization in P2P Collaborative Systems

10:30-11:00 Coffee Break

11:00-12:30 Parallel Sessions

AINA-S7A: Cloud Computing and Systems - Room 1

Chair: Chunming Rong, University of Stavanger, Norway

1. Clock Skew Based Client Device Identification in Cloud Environments
Ding-Jie Huang, Kai-Ting Yang, Chien-Chun Ni, Wei-Chung Teng, Tien-Ruey Hsiang and Yuh-Jye Lee
2. ScaleStar: Budget Conscious Scheduling Precedence-Constrained Many-task Workflow Applications in Cloud
Lingfang Zeng, Bharadwaj Veeravalli and Xiaorong Li
3. Reliable Provisioning of Spot Instances for Compute-intensive Applications
William Voorsluys and Rajkumar Buyya
4. Lightweight Application-level Task Migration for Mobile Cloud Computing
Ricky Ma and Cho-Li Wang

AINA-S7B: Communication Networks and Routing - Room 2

Chair: Joseph Kee-Yin Ng, Hong Kong Baptist University, Hong Kong

1. Multi-retransmission route discovery schemes for ad hoc wireless networks with a realistic physical layer
Xiangyang Jin, Thomas Kunz and Ivan Stojmenovic
2. On Multicast Routing with Traffic Grooming in Light-Trail Networks
Ching-Fang Hsu and Tzu-Huan Tang
3. PC-based Router Virtualization with Hardware Support
Muhammad Siraj Rathore, Markus Hidell and Peter Sjodin
4. AMIR:Another Multipath Interdomain Routing
Donghong Qin, Jaihai Yang, Zhuolin Liu, Hui Wang, Bin Zhang and Wei Zhang

AINA-S7C:QoS and Service Oriented Architecture - Room 3

Chair: Tomoya Enokido, Risho University, Japan

1. Run-time Revenue Maximization for Composite Web Services with Response Time Commitments
Miroslav Zivkovic, Joost Bosman, Hans Van Den Berg, Rob Van Der Mei, Hendrik Meeuwissen and Rudesindo Nunez-Queija
2. An Extended Power Consumption Model for Distributed Applications
Tomoya Enokido and Makoto Takizawa

3. DEMODS: A Description Model for Data-as-a-Service
Quang Hieu Vu, Tran Vu Pham, Hong-Linh Truong, Shahram Dustdar and Rasool Asal
4. Applying Particle Swarm Optimization to Quality-of-Service-driven Web Service Composition
Simone Ludwig

W-FINA-S13: Routing Algorithms and Traffic Control - Room 4**Chair: Takuo Suganuma, Tohoku University, Japan**

1. Introducing SOR: SSH-based Onion Routing
Andre Egners, Dominic Gatzert, Andriy Panchenko and Ulrike Meyer
2. Efficient Detection Scheme for Urban Traffic Congestion using Buses
Yuwei Xu, Ying Wu, Jingdong Xu and Sun Lin
3. Method of Autonomic Load Balancing for Long Polling in M2M Service System
Shinji Kitagami, Yosuke Kaneko and Takuo Suganuma
4. Efficient Routing Method in P2P Systems Based Upon Training Knowledge
Yeferny Taoufik and Arour Khedija

W-FINA-S14: Trust Computing and Assurance - Room 5**Chair: Farookh Hussain, University of Technology Sydney, Australia**

1. A Study of Consumers' Trust in Online Shopping between Pick-up Goods Behavior in the Convenience Stores
Chun-Chia Wang and Chang-Cheng Sie
2. Trustworthiness Assessment of Knowledge on the Semantic Sensor Web by Provenance Integration
Denise Umuhoza and Braun Robin
3. A Framework for SLA Assurance in Cloud Computing
Adil Hammadi and Omar Hussain

W-HWISE-S7: Sensor Networks - Room 6**Chair: Takahiro Hara, Osaka University, Japan**

1. Energy Monitoring System using Sensor Networks in Residential Houses
Aoi Hashizume, Tadanori Mizuno and Hiroshi Mineno
2. Energy-Effective Clustering Algorithm Based on Adjacent Nodes and Residual Electric Power in Wireless Sensor Networks
Shin-Nosuke Toyoda
3. Traffic Classifier for Heterogeneous and Cooperative Routing through Wireless Sensor Networks
Ana Nieto and Javier Lopez
4. A Sensor Data Collection Method with a Mobile Sink for Communication Traffic Reduction by Delivering Predicted Values
Wataru Seino, Tomoki Yoshihisa, Takahiro Hara and Shojiro Nishio

W-SMPE-S1: Authentication and Analysis - Room 7**Chair: Takuo Nakashima, Tokai University, Japan**

1. Improvement of the more efficient and secure ID-based remote mutual authentication with key agreement scheme for mobile devices on ECC
Toan-Thinh Truong, Minh-Triet Tran, Anh-Duc Duong
2. Design and Implementation of Improved Authentication System for Android Smartphone Users
Kwang Il Shin, Jae Yong Lee, Ji Soo Park, Jong Hyuk Park
3. The Evaluation of an Anomaly Detection System based on Chi-square Method
Shunsuke Oshima, Takuo Nakashima and Toshinori Sueyoshi

W-ITIS-S1: Innovative Systems - Room 8**Chair: Minoru Uehara, Toyo University, Japan**

1. Proposal for Improving Throughput in Supersaturated Cloud
Motoi Yamagiwa, Minoru Uehara
2. An experiment and discussion of the reboot feature in the Photovoltaic Grid System
Kenichi Fujii, Motoi Yamagiwa, Minoru Uehara
3. Web-based Environment for GUI Application Development
Hideaki Yanagisawa
4. Network Management System based on Activated Knowledge Resource
Gen Kitagata, Kazuto Sasai, Johan Sveholm, Hideyuki Takahashi, Tetsuo Kinoshita

12:30-14:00 Lunch Break**14:00-15:30 Parallel Sessions****AINA-S8A: Vehicular Networks and Applications - Room 1****Chair: Chung-Ming Huang, National Cheng Kung University, Taiwan**

1. The Proactive Member-Centric Routing Protocol Using the Several Strategy (PMCS) for the Fleet Scenario in the Hybrid VANET
Chung-Ming Huang, Tzu-Hua Lin and Cheng-Hsiu Chang
2. Abiding Regional Data Distribution using Relay and Random Network Coding on VANETs
Naruhiko Kusumine and Susumu Ishihara
3. Optimal Phase Ordering of Traffic Signals to Reduce Stopped Delay
Jason Barnes and Vamsi Paruchuri

AINA-S8B: Multimedia and Social Networking - Room 2**Chair: Hiroaki Nishino, Oita University, Japan**

1. Video Editing Using Motion Inpainting
Joseph C. Tsai, Timothy K. Shih, Kanoksak Wattanachote and Kuan-Ching Li
2. Evaluating Quality of Health Information Sources
Leila Weitzel, Paulo Quaresma and Jos Palazzo M. De Oliveira
3. Instruction for Remote MR Cooperative Work with Captured Still Workers View Video
Makoto Kikkawa, Ginga Kamei and Ken-Ichi Okada
4. A Tangible Information Explorer Using Vibratory Touch Screen
Hiroaki Nishino, Yuki Fukakusa, Akari Hatano, Tsuneo Kagawa and Kouichi Utsumia

AINA-S8C: Authentication and Secure Systems - Room 3**Chair: Ilsun You, Korean Bible University, Korea**

1. Robust Mobile Device Integration of a Fingerprint Biometric Remote Authentication Scheme
Toan Thinh Truong, Minh Triet Tran and Anh Duc Duong
2. Compositional Logic for Proof of Correctness of Proposed UDT Security Mechanisms
Danilo Valeros Bernardo and Doan Hoang
3. An Efficient FPGA Design of PingPong-128 Stream Cipher for Secure Computing
Amlan Choudhury, Hyotaek Lim and Hoon-Jae Lee
4. Efficient and Secure Cross-Realm Client-to-Client Password-Authenticated Key Exchange
Po-Jen Chuang and Yi-Ping Liao

W-FINA-S15: Algorithms - Room 4**Chair: Alvin C. Valera, Institute for Infocomm Research, Singapore**

1. RBRA: A Simple and Efficient Rating-Based Recommender Algorithm to Cope with Sparsity in Recommender Systems
Feng Xie, Ming Xu and Zhen Chen
2. A Novel Robust and High Reliability for Lucas-Kanade Optical Flow Algorithm Using Median Filter and Confidence Based Technique
Darun Kesrarat and Vorapoj Patanavijit
3. Experimental Investigation for Practical Sparsity Number for Image Reconstruction Based on SL0 Algorithm in Discrete Frequency Domain
Datchakorn Tancharoen, Pham Hong Ha, Kornkamol Thakulsukanant and Vorapoj Patanavijit

W-FINA-S16: Communication Systems - Room 5**Chair: David Taniar, Monash University, Australia**

1. A Covert Channel Using Core Alternation
Yangwei Li, Qingni Shen, Cong Zhang, Pengfei Sun, Ying Chen and Sihan Qing
2. IEC 61850 Standard Based MMS Communication Stack Design Using OOP
Park Jongjoo, In Eunkyoo, Ahn Sangwoo, Jang Cheoljon and Chong Jonghwa
3. An Alternative Robust SL0 based on Recursive Huber Stochastic Estimation Technique in Frequency Domain
Tunyawat Somjaitaweeporn, Pham Hong Ha, Kornkamol Thakulsukanant and Vorapoj Patanavijit

W-HWISE-S8: Wireless Communication Systems and Technologies - Room 6**Chair: Kazunori Uchida, Fukuoka Institute of Technology, Japan**

1. Development of Human-Like Agent to Support Lecture Presentation Using a Wireless Device and Image Processing Technology
Youji Ochi
2. The Design and Implementation of a Wireless Location Estimation System in a Wireless Local Area Network
Kevin Chin Yiu Shum, Joseph Kee-Yin Ng and Quan Jia Cheng
3. Experimental Study on X-shaped Photonic Crystal Waveguide in 2D Triangular Lattice for Wavelength Division Multiplexing System
Hiroshi Maeda, Shota Inoue, Shintaro Nakahara, Osamu Hatanaka, Yongmei Zhang and Hiroyuki Terashima
4. On Accuracy of Discrete Ray Tracing Method in Comparison with Rigorous Solutions
Masafumi Takematsu, Junichi Honda and Kazunori Uchida

W-SMPE-S2: Secure Architectures and Platforms - Room 7**Chair: Sang-Soo Yeo, Mokwon University, Korea**

1. Securing an interoperability architecture for home and urban networking
Rafael Gimenez, Marc Pous, Francisco Rico-Novella
2. Pandora Messaging: An Enhanced Self-Message-Destructing Secure Instant Messaging Architecture for Mobile Devices
Tsai-Yeh Tung, Laurent Lin, Der-Tsai Lee
3. Related-Key Attack on the MD-64 Block Cipher suitable for Pervasive Computing Environments
Jinkeon Kang, Kitae Jeong, Sang-Soo Yeo and Changhoon Lee

4. Coping with the Complexity of SOA Systems with Message Forensics
Takafumi Hayashi, Atushi Kara, Toshiaki Miyazaki, Jiro Iwase, Hideyuki Fukuhara, Tetsu Saburi and Masayuki Hisada

W-ITIS-S2: Innovative Applications and Security - Room 8**Chair: Minoru Uehara, Toyo University, Japan**

1. A Proposal of a Simplified Jumping Distance Measurement Method for Ski Jumper's Motion Monitoring System using Terrestrial Magnetism and Acceleration Sensors
Nobuyoshi Sato, Ryota Takamagi, Tsuyoshi Takayama, Yoshitoshi Murata
2. Implementation of a Practical Calendaring System Conforming with Ambiguous Pattern of Recurring Tasks
Yoshinari Nomura, Syusuke Mihara, and Hideo Taniguchi
3. Spam Detection by Sobel operator and OCR
Peng Wan, Minoru Uehara
4. Interactive Fingerprint
Yuji Suga
5. OpenGate on Cloud
Kenzi Watanabe, Makoto Otani, Shin-ichi Tadaki and Yoshiaki Watanabe

15:30-16:00 Coffee Break**16:00-17:30 Parallel Sessions****AINA-S9A: Wireless Sensor Networks - Room 1****Chair: Akio Koyama, Yamagata University, Japan**

1. Investigation of Packet Loss in Mobile WSNs for AODV Protocol and Different Routing Protocols and Radio Models
Tao Yang, Tetsuya Oda, Leonard Barolli, Jiro Iwashige, Arjan Durrezi and Fatos Xhafa
2. Analysis of Field Intensity Distribution in Inhomogeneous Propagation Environment
Junichi Honda and Kazunori Uchida
3. An Algorithm for Jammer Localization in Wireless Sensor Networks
Tianzhen Cheng, Ping Li and Sencun Zhu
4. Is RSSI a good choice for localization in Wireless Sensor Network?
Karel Heurtefeux and Fabrice Valois

AINA-S9B: Cryptographic Techniques and Systems - Room 2**Chair: Kenzi Watanabe, Saga University, Japan**

1. Toward Data Confidentiality via Integrating Hybrid Encryption Schemes and Hadoop Distributed File System
Hsiao-Ying Lin, Shiuan-Tzuo Shen, Wen-Guey Tzeng and Bao-Shuh Lin
2. Knapsack Cryptosystems and Unreliable Reliance on Density
Shang-Ming Jen, Tse-Lin Lai, Chia-Yu Lu and Jar-Ferr Yang
3. Fundamental Incomplete Cryptography Method to Digital Rights Management Based on JPEG Lossy Compression.
Munetoshi Iwakiri and Ta Minh Thanh
4. Incomplete Cryptography Method Using Invariant Huffman Code Length to Digital Rights Management
Ta Minh Thanh and Munetoshi Iwakiri

AINA-S9C: P2P and Scalable Systems - Room 3**Chair: Feilong Tang, Shanghai Jiao Tong University, China**

1. Inducing Scale-Free Characteristics of Dynamic Unstructured P2P Networks
Junichi Shimada, Kei Ohnishi, Hitomi Tamura and Yuji Oie
2. Intrusion-Tolerant Shared Memory through a P2P Overlay Segmentation
Davi Da Silva Bger, Joni Fraga, Eduardo Alchieri and Michelle Wingham
3. A Scheduling Method for Node Relay-based Webcast Considering Reconnection
Yusuke Gotoh, Tomoki Yoshihisa, Hideo Taniguchi, Masanori Kanazawa, Wenny Rahayu and Yi-Ping Phoebe Chen
4. Building Distributed Attribute-Value Trees On DHT-based Networks
Hoaison Nguyen, Yasuo Tan and Yoichi Shinoda

W-FINA-S17: Parallel and JAVA based Computing - Room 4**Chair: Heinz Kredel, University of Mannheim, Germany**

1. Characterizing Obfuscated JavaScript using Abstract Syntax Trees: Experimenting with Malicious Scripts
Gregory Blanc, Daisuke Miyamoto, Mitsuaki Akiyama and Youki Kadobayashi
2. Deterministic Replay of Multithread Applications Using Virtual Machine
Jiageng Yu, Yiwei Ci, Peng Zhou, Yanjun Wu and Chen Zhao
3. Fostering Interoperability in Java-Based Computer Algebra Software
Heinz Kredel
4. Adaptive for Speeding up Sequences of Consensus
Michel Hurfin, Izabela Moise, Jean-Pierre Le Narzul and Frederic Majorczyk

W-FINA-S18: Internet Computing and Mobile Service Trends - Room 5**Chair: Nobuo Funabiki, Okayama University, Japan**

1. From Gamenics to Servicenics: Lessons Learned in Mobile Social Games in Japan Toward Service Engineering
Toshihiko Yamakami
2. Expertise Level Estimation of Library Books by Patron-Book Heterogeneous Information Network Analysis – Concept and Applications to Library’s Learning Assistant Service –
Toshiro Minami
3. Detecting Events in Narrative Essays
Lam Hon Wai, Dillon Tharam, Chang Elizabeth and Wongthongtham Pornpit
4. Exploring the Key Success Factors of Mobile Commerce in Taiwan
I-Ping Chiang and Yi-Shiang Liao
5. An Online Fill-in-the-blank Problem Function for Learning Reserved Words in Java Programming Education
Nobuo Funabiki, Yousuke Korenaga, Yukiko Matsushima, Toru Nakanishi and Kan Watanabe

W-HWISE-S9: Mobile Networks - Room 6**Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. An Efficient Group-based Channel Scanning Scheme for Handover with IEEE 802.16e
Hwi Woon Jeong, Jun Yeol Choi, Hyung Ku Kang and Hee Yong Youn
2. NEMO-Based Distributed Mobility Management
Sinchai Kamolphiwong, Robert Elz and Panita Pongpaibool

3. Mobile Agent Migration Based on Code Caching
Masayuki Higashino, Kenichi Takahashi, Takao Kawamura and Kazunori Sugahara
4. Following the User's Interests in Mobile Context-Aware Recommender Systems The hybrid greedy Algorithm
Djallel Bouneffouf, Amel Bouzeghoub and Alda Lopes Gancarski

W-SMPE-S3: Network Security - Room 7**Chair: Jong Hyuk Park, Seoul National University of Science and Technology, Korea**

1. REFORM: RElevant Features fOR Malware analysis
Vinod P., V.Laxmi and M.S.Gaur
2. Security and QoS tradeoffs: towards a FI perspective
Ana Nieto, Javier Lopez
3. CAD-MAC: Coverage Adaptive Directional Medium Access Control for mmWave Wireless Personal Area Networks
Jung-Hyok Kwon, Eui-Jik Kim, Chul-Hee Kang
4. The Study for the User Oriented Service Design for Inter-organizational Collaboration
Jaehwan Lim, Yanghoon Kim, Yongsub Na, Hangbae Chang

W-CIF-S1: Complex Information Flows - Room 8**Chair: Hiroyuki Ohsaki, Osaka University, Japan**

1. Integer Programming Formulation for Grouping Clusters in Ferry-assisted DTNs (Invited Paper)
K. Habibul Kabir, Masahiro Sasabe, Tetsuya Takine
2. Impact of Mobility Constraints on Epidemic Broadcast Mechanisms in Delay-Tolerant Networks
Hiroyuki Ohsaki, Yosuke Yamada, Dimitri Perrin, Makoto Imase
3. Lightweight Distributed Method for Connectivity-based Clustering Based on Schelling's Model
Sho Tsugawa, Hiroyuki Ohsaki and Makoto Imase
4. Decentralised Communication in Autonomous Agent Swarms
Dimitri Perrin and Hiroyuki Ohsaki

19:00-21:00 Banquet Party

Thursday, March 29, 2012**08:00 Registration****09:00-10:30 Parallel Sessions****AINA-S10A: Wireless Sensor Networks and Systems - Room 1****Chair: Hwee-Pink Tan, Institute for Infocomm Research, Singapore**

1. A Radio-disjoint Geographic Multipath Routing in Wireless Sensor Networks
Jeongcheol Lee, Hosung Park, Seungmin Oh, Yongbin Yim and Sang-Ha Kim
2. A Low Cost Reliable Data Transmission Protocol over Multipath in Wireless Sensor Networks
Haosong Gou and Younghwan Yoo
3. A Reliable Communication Strategy for Real-Time Data Dissemination in Wireless Sensor Networks
Seungmin Oh, Yongbin Yim, Jeongcheol Lee, Hosung Park and Sang-Ha Kim
4. Three-dimensional Location-based IPv6 Addressing for Wireless Sensor Networks in Smart Grid
Chih-Yung Cheng, Chi-Cheng Chuang and Ray-I Chang

AINA-S10B: Communication Systems and Networks - Room 2**Chair: Cheea Kim, POSTEC, Korea**

1. Harsh RED: Improving RED for Limited Aggregate Traffic
Ilpo Irvinen, Yi Ding, Aki Nyrhinen and Markku Kojo
2. Distributed Reservation-based MAC Protocol for UWB WiMedia MAC
Jiseon Lee, Hyeonmok Ko and Cheeha Kim
3. Delay Guaranteed Media Access Control for Wireless Home Automation Networks
Lei Jing, Zixue Cheng and Yinghui Zhou

W-FINA-S19: Network and Virtualization - Room 3**Chair: Nobuyoshi Sato, Iwate Prefectural University, Japan**

1. A Proposal of Method for Suspicious Person Detection on P2P Security Camera Network System
Aki Choho, Nobuyoshi Sato, Tsuyoshi Takayama and Yoshitoshi Murata
2. Smart-TV Based Integrated e-Health Monitoring System with Agent Technology
Golam Sorwar and Raqibul Hasan
3. Maximization of Network Survivability under Malicious and Epidemic Attacks
Frank Yeong-Sung Lin, Yu-Shun Wang, Hui-Yu Chung and Jia-Ling Pan
4. A Hetero-Core Spliced Optical Fiber Sensor Network for Remote Monitoring of Agricultural Environment
Lee See Goh, Takaaki Ichimiya, Kazuhiro Watanabe and Norihiko Shinomiya
5. vSuit: QoS-oriented Scheduler in Network Virtualization
Feng Dan, Wang Xiaojing, Zhao Wei, Tong Wei and Liu Jingling

W-IWDENS-S1: Disaster Information Networks - Room 4**Chair: Yoshitaka Shibata, Iwate Prefectural University, Japan**

1. Wireless Network System with Autonomous Antenna Actuator Control for Disaster Information
Toshihiro Suzuki, Yoshitaka Shibata
2. Construction of IEEE802.11-based Wireless Network for Community Information Sharing in a Disaster-affected Environment
Tetsuya Shigeyasu, Shota Katahira, Hitoshi Morioka, Hiroshi Matsuno
3. Network Relief Activity with Cognitive Wireless Network for Large Scale Disaster
Noriki Uchida, Kazuo Takahata, Yoshitaka Shibata
4. A Disaster Information Sharing Method by the Mobile Servers in Challenged Networks
Yutaka Sasaki, Yoshitaka Shibata

W-BLSMC-S1: Bioinformatics and Life Science Modeling and Computing - Room 5**Chair: Jacques Demongeot, University J. Fourier, France**

1. Robustness in Genetic Threshold Boolean Random Regulatory Networks: A Mathematical Approach
Jacques Demongeot and Jules Waku
2. Random modelling of contagious (social and infectious) diseases: examples of obesity and HIV and perspectives using social networks.
Jacques Demongeot, Olivier Hansen, Anne-Sophie Jannot, Carla Taramasco
3. Study of aggregation operators for scheduling clusters in digital images of plants
Jimmy Nagau, Sebastien Regis, Jean-Luc Henry, Andrei Doncescu
4. Initialization of masses by the Okm for the belief function theory. Application to System Biology
Sebastien Regis, Andrei Doncescu, Makoto Takizawa, Guillaume Cleuziou
5. Conflict Intersection as Diagnostic Model
Mourad Benkaci, Makoto Takizawa, Andrei Doncescu

W-DMWPC-S1: VANET and WSN - Room 6**Chair: Takahiro Hara, Osaka University, Japan**

1. Dynamic Path Determination of Mobile Beacons Employing Reinforcement Learning for Wireless Sensor Localization
Songsheng Li, Xiaoying Kong, David Lowe
2. Communication-Efficient Anonymous Routing Protocol for Wireless Sensor Networks Using Single Path Tree Topology
Shogo Nakamura, Yoshiaki Hori, Kouichi Sakurai
3. Using Interest-aware Probabilistic for Leisure Information Dissemination in VANETs
Sheng-Tzong Cheng, Jian-Pan Li

W-HWISE-S10: Algorithms and Mechanisms for Wireless Networks - Room 7**Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. A Hybrid Scheduling Mechanism for IEEE 802.16j Networks
Ying-Hong Wang, Wei-Chih Lin, Cheng-Hung Tsai and Guo-Rui Huang
2. PoA Selection in 802.11 Networks using Media Independent Information Server (MIIS)
Muhammad Qasim Khan and Steinar Andresen
3. Token-Based Mutual Exclusion Algorithm in Mobile Cellular Networks
Seoun-Hyung Lee
4. Energy-Balanced Rate Assignment and Routing Protocol for Body Area Networks
Nedal Ababneh, Nicholas Timmons, Jim Morrison and David Tracey

W-BICOM-S1: Genetic Algorithms and Simulated Annealing - Room 8**Chair: Fatos Xhafa, Technical University of Catalonia, Spain**

1. Odds Ratio-Based Genetic Algorithm for Prediction of SNP-SNP Interactions in Breast Cancer Association Study
Li-Yeh Chuang, Ming-Cheng Lin, Hsueh-Wei Chang and Cheng-Hong Yang
2. Evaluating Simulated Annealing for the Weighted-Region Path-Planning Problem
Mark R. Kindl and Neil C. Rowe
3. A Genetic Algorithm with Prioritized Objective Functions for Service Composition
Yang Syu, Yong-Yi Fanjiang, Jong-Yih Kuo and Shang-Pin Ma
4. End-to-End QoS Guaranteed Approach Using Multi-Object Genetic Algorithm in Cognitive MANETs
Huixing Peng, Yuebin Bai and Xiaoxia Liu

10:30-11:00 Coffee Break**11:00-12:30 Parallel Sessions****AINA-S10C: Scalable and Secure Computing - Room 1****Chair: Fatos Xhafa, Technical University of Catalonia, Spain**

1. Preemption-aware Admission Control in a Virtualized Grid Federation
Mohsen Amini Salehi, Bahman Javadi and Rajkumar Buyya
2. Mining Network Traffic Efficiently to Detect Stepping-Stone Intrusion
Yingjie Sheng, Yongzhong Zhang and Jianhua Yang
3. Web Spam Detection using Link-based Ant Colony Optimization
Apichat Taweewirawate, Bundit Manaskasemsak and Arnon Rungsawang
4. From Meta-computing to Interoperable Infrastructures: A Review of Meta-schedulers for HPC, Grid and Cloud
Stelios Sotiriadis, Nik Bessis, Fatos Xhafa and Nick Antonopoulos

AINA-S11A: Wireless Networks - Room 2**Chair: Akio Koyama, Yamagata University, Japan**

1. Experimental Results of a MANET Testbed in a Mixed Environment Considering Horizontal and Vertical Topologies
Masahiro Hiyama, Elis Kulla, Tetsuya Oda, Makoto Ikeda and Leonard Barolli
2. Scheduling and Flow Control for Delay Guarantees in Multi-hop Wireless Networks
Ngoc-Thai Pham, Nak Woon Sung and Won-Joo Hwang
3. Stochastic Optimization for Minimum Outage in Cooperative Ad-Hoc Network
Huynh Thong, Ngoc-Thai Pham, Won-Joo Hwang and Fabrice Theoleyre
4. Implementation and Evaluation of Real Object-Oriented Communication Method for Ad-Hoc Networks
Hiroyuki Suzuki and Akio Koyama

W-TeNAS-S1: Network Technologies and Applications I - Room 3**Chair: Timothy K. Shih, National Central University, Taiwan**

1. A Multipath Routing Algorithm for Degraded-Bandwidth Services under Availability Constraint in WDM Networks
Hung-Yi Chang
2. Dynamic Time Scheduling in Advance Bandwidth Reservation
Tananun Oraviwattanakul, Hideki Otsuki, Eiji Kawai, Shinji Shimojo
3. A Fuzzy Knowledge Based Fault Tolerance Algorithm in Wireless Sensor Networks
Shih-Hao Chang, Teh-Sheng Huang
4. Communication quality improvement method through end host enhancements for TFRC-type mobile streaming
Atsushi Den, Katsuyoshi Iida

W-IWDENS-S2: Disaster Support Systems - Room 4**Chair: Yoshitaka Shibata, Iwate Prefectural University, Japan**

1. Problem Analysis and Solutions of Information Network Systems on East Japan Great Earthquake
Yoshitaka Shibata, Noriki Uchida, Yuji Ohashi
2. A Proposal of Forestry Worker Support System Using HMD
Norihisa Segawa, Yusuke Shinohe, Jun Sawamoto
3. Differences in the Behaviors Collecting Information from Available Media Between the Students of Afflicted and Those of Non-afflicted Prefectures in the Crisis Caused by the 2011 off Pacific Coast of Tohoku Earthquake
Erina Gyoba
4. Development of Cloud Based Safety Confirmation System for Great Disaster
Hiroaki Yuze, Naoyoshi Suzuki

W-OIWITA-S1: Cloud Computing and Energy Saving - Room 5**Chair: Chun-Liang Hsu, St. Johns University, Taiwan**

1. Developing a Cloud Intelligent and Energy-saving Information Interface Agent with Web Services
Sheng-Yuan Yang and Dong-Liang Lee
2. An Exploration of The Optimization of Executive Scheduling in The Cloud Computing
Chih-Yung Chen and Hsiang-Yi Tseng
3. Design for Middle-Way of Intelligent Energy-Saving System with Embedded System
Dong-Liang Lee, Kune-Yao Chen, Chun-Liang Hsu, and Sheng-Yuan Yang

W-DMWPC-S2: Data processing and management - Room 6**Chair: Akimitsu Kanzaki, Osaka University, Japan**

1. A Ubiquitous Data Logger that Selects an Efficient Data Compression Method
Kenji Ono, Tsutomu Terada, Masahiko Tsukamoto
2. An Efficient Stream Archiving Method by Operator Merge and Write Control
Taiga Abe, Hideyuki Kawashima and Hiroyuki Kitagawa

W-CCSI-S1: Cloud Computing, Services and Interoperability - Room 7**Chair: Tomasz Wiktor Wlodarczyk, University of Stavanger, Norway**

1. Performance of Left Outer Join on Hadoop with Right Side within Single Node Memory Size
Byambajargal Byambajav, Tomasz Wiktor Wlodarczyk, Paea LePendou, Nigam Shah, Chunming Rong
2. RVEC: Efficient Remote Desktop for the Engineering Cloud
Shinichi Sazawa, Masayoshi Hashima and Yuichi Sato, Kenichi Horio, Kazuki Matsui
3. Virtual Machine Migration Method between Different Hypervisor Implementations and its Evaluation
Yuki Ashino and Masayuki Nakae
4. Virtual Network Mapping Through Path Splitting and Migration
Wo-Hsiao Hsu, Yuh-Pyng Shieh, Chia-Hui Wang, Sheng-Cheng Yeh

W-BICom-S2: Fuzzy and Rule-based Systems - Room 8**Chair: Leonard Barolli, Fukuoka Institute of Technology, Japan**

1. A Fuzzy-based Trustworthiness System for JXTA-Overlay P2P Platform and Its Performance Evaluation Considering Three Parameters
Kouhei Umezaki, Evjola Spaho, Yuichi Ogata, Leonard Barolli, Fatos Xhafa and Jiro Iwashige
2. A Discovery Method of Trend Rules from Complex Sequential Data
Shigeaki Sakurai, Kyoko Makino and Shigeru Matsumoto
3. PCR-RFLP Primer Design Using Particle Swarm Optimization Combined with Chaotic Logistic Map
Li-Yeh Chuang, Yu-Da Lin, Hsueh-Wei Chang and Cheng-Hong Yang
4. A Fuzzy-based Cluster-Head Selection System for WSNs Considering Different Parameters
Qi Wang, Hironori Ando, Elis Kulla, Leonard Barolli and Arjan Durrresi

12:30-14:00 Lunch Break**14:00-15:30 Parallel Sessions****AINA-S11B: Energy-Efficient and Green Computing - Room 1****Chair: Makoto Takizawa, Seikei University, Japan**

1. Completable Quorums of Multimedia Objects
Tadateru Ohkawara, Ailixier Aikebaier, Tomoya Enokido and Makoto Takizawa
2. Algorithms for Selecting Energy-efficient Storage Servers in Storage and Computation Oriented Applications
Takuro Inoue, Ailixier Aikebaier, Tomoya Enokido and Makoto Takizawa
3. Greening the Internet using Multi-Frequency Scaling Schemes
Wei Meng, Yi Wang, Chengchen Hu, Keqiang He, Jun Lee and Bin Liu

AINA-S11C: Dependable Systems and Autonomic Computing - Room 2**Chair: Fatos Xhafa, Technical University of Catalonia, Spain**

1. Combining Decomposition and Reduction for State Space Analysis of a Self-Stabilizing Systems
Nils Mllner, Oliver Theel and Martin Frnzle
2. A Study on Coverage Problem of Network Planning in LTE-Advanced Relay Networks
Fan-Hsun Tseng, Chi-Yuan Chen, Li-Der Chou, Tin-Yu Wu and Han-Chieh Chao
3. Deterministic High Density Packet-Buffer system for Low Cost Network Systems
Hisashi Iwamoto, Yuji Yano, Yasuto Kuroda, Koji Yamamoto, Shingo Ata and Kazunari Inoue

W-TeNAS-S2: Network Technologies and Applications II - Room 3**Chair: Timothy K. Shih, National Central University, Taiwan**

1. Design and Implementation of An Automatic Network Topology Discovery System for the Future Internet Across Different Domains
Wun-Yuan Huang, Jen-Wei Hu, Shu-Cheng Lin, Te-Lung Liu, Pang-Wei Tsai, Chu-Sing Yang, Fei I Yeh, Jim Hao Chen, Joe J. Mambrett
2. Fairness Comparisons Among Modern TCP Implementations
Ryo Oura, Saneyasu Yamaguchi
3. New P2P Sharing Incentive Mechanism Based on Social Network and Game Theory
Tzu-Ming Wang, Wei-Tsong Lee, Tin-Yu Wu, Hsin-Wen Wei and Yu-San Lin,

W-PAMS-S1: Network Protocols - Room 4**Chair: Thomas Dreibholz, University of Duisburg-Essen, Germany**

1. On the Use of an Increased Initial Congestion Window to Improve mSCTP Handover Performance
Johan Eklund, Karl-Johan Grinnemo, Anna Brunstrom
2. An SCTP-based Mobility Management Framework for Smartphones and Tablets
Pehr Soderman, Karl-Johan Grinnemo, Georgios Cheimonidis, Yuri Ismailov, Anna Brunstrom
3. Simulation and Experimental Evaluation of Multipath Congestion Control Strategies
Thomas Dreibholz, Hakim Adhari, Martin Becke, Erwin Paul Rathgeb
4. QoS-oriented MPTCP Extensions for Multimedia Multi-Homed Systems
Code Diop, Guillaume Dugue, Christophe Chassot, Ernesto Exposito

W-OIWITA-S2: Platforms and Algorithms - Room 5**Chair: Chun-Liang Hsu, St. Johns University, Taiwan**

1. A Study on the Establishment of Online S-P Platform
Kune-Yao Chen, Hsiu-Chuan Liu, and Steve Tu
2. Verifying The Produce of Car-bind Through Timed Petri Net
Dong-liang Lee, Jih-Fu Tu, Hsuan-Jung Lee, and Kwang Pi Chen
3. Preference Sorting Based on User's Relevance Feedback
Lawrence Y. Deng, Yung-Hui Chen, and Yi-Jen Liu

W-PAEWN-S1: Wireless Mesh and Mobile Networks - Room 6**Chair: Irfan Awan, Bradford University, UK**

1. Co-existence of Evolutionary Mixed-Bias Scheduling with Quiescence and IEEE 802.11 DCF for Wireless Mesh Networks
Jason B. Ernst, Joseph Alexander Brown
2. A Novel Approach for Rogue Access Point Detection on the Client-Side
Somayeh Nikbakhsh, Mazdak Zamani, Azizah Bt Abdul Manaf and Maziar Janbeglou
3. Enhanced SDMA for VANET Communication
Ranjeet Singh Tomar, Shekhar Verma
4. Software Simulation Tool for the Capacity Analysis of WiMAX Base Stations
Yang-Han Lee, Chih-Yuan Lo, Yih-Guang Jan, Hen-Wai Tsao and Jing-Shown Wu

W-BICom-S3: Intelligent Control Systems and Applications - Room 8**Chair: Marek R. Ogiela, AGH University of Science and Technology, Poland**

1. Challenges of Machine Learning Based Monitoring for Industrial Control System Networks
Matti Mantere, Ilkka Uusitalo, Mirko Saitto and Sami Noponen
2. Design and Implementation of Waste Management Robots
Keita Matsuo, Yuichi Ogata, Kouhei Umezaki, Evjola Spaho, Leonard Barolli
3. Medical Visualizations in Secure Bio Computing
Marek R. Ogiela, Lidia Ogiela

15:30-16:00 Coffee Break

Additional Information

Social Events

Reception Party

March 27, 2012, 19:00 - 21:00
OASIS Restaurant
Fukuoka Institute of Technology (FIT)
3-30-1 Wajiro-Higashi, Higashi-Ku,
Fukuoka 811-0295
Tel.: 092-606-2204

Banquet Party

March 28, 2012, 19:00 - 21:00
Hakata Centraza Hotel
4-23, Chuogai, Hakataeki, Hakata-ku, Fukuoka-shi,
Fukuoka 812-0012
Tel: +81-92-461-0111

Internet Access

The Internet access will be available during the Conferences days.

SSID: aina2012

WEP: aina2012fit03

Local Contact

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