

PROGRAM SCHEDULE

May 26, 2011 (Thursday)					
09:00 - 09:30	Registration				
09:40 - 12:00	Session 1-A (ISPA-11) (Chair: SangOh Park) (Room: Sapphire)	Session 1-B (ISPA-11) (Chair: Menghui Yang) (Room: Astor)	Session 1-C (ISPA-11) (Chair: Jongsung Kim) (Room: Charlotte)	Session 1-D (SGH-11) (Chair: Sanghyun Seo) (Room: Belle-Vue)	Session 1-E (UMES-11) (Chair: Fan Jing) (Room: Berkeley)
12:00 - 13:30	Lunch (Room: Emerald – LL fl.)				
13:30 - 14:50	<p>Opening Remark by Prof. Young-Sik Jeong (ISPA 2011, ICASE 2011, GSDP 2011)</p> <p>Keynote Speech 1, (Chair: Young-Sik Jeong)</p> <p>Title: Software Engineering Approaches to the Challenges in Technology Education and System Development in the Software Ecosystem Environment</p> <p>by Dr. C.V. Ramamoorthy, Professor, University of California at Berkeley, USA (Room: Sapphire – LL fl.)</p>				
14:50 - 15:10	Coffee Break				
15:10 - 16:20	<p>Keynote Speech 2, (Chair: Cho-Li Wang)</p> <p>Title: Research Frontiers in The Clouds, Many-Core and Internet of Things</p> <p>by Dr. Kai Hwang, Professor, University of Southern California, USA (Room: Sapphire – LL fl.)</p>				
16:20 - 16:40	Break				
16:40 - 18:00	Session 2-A (ISPA-11) (Chair: Sejun Song) (Room: Sapphire)	Session 2-B (ISPA-11) (Chair: Carla Osthoff) (Room: Astor)	Session 2-C (ISPA-11) (Chair: Yen-Chun Lin) (Room: Charlotte)	Session 2-D (ICASE-11) (Chair: Amy Poh Ai Ling) (Room: Belle-Vue)	Session 2-E (PETSE & GSDP-11) (Chair: LI Ye-hua) (Room: Berkeley)
18:30 - 20:00	Conference Reception (Room: Emerald – LL fl.)				



May 27, 2011 (Friday)					
09:00 - 10:00	Registration				
10:00 - 12:00	Session 3-A (ISPA-11) (Chair: Chao Wang) (Room: Sapphire)	Session 3-B (ISPA-11) (Chair: Jongsung Kim) (Room: Astor)	Session 3-C (ICASE-11) (Chair: Sanghyun Seo) (Room: Charlotte)	Session 3-D (SGH-11) (Chair: Xiaojun Zhu) (Room: Belle-Vue)	Session 3-E (CIA-11 & NSTC-11) (Chair: Changhoon Lee) (Room: Berkeley)
12:00 - 13:30	Lunch (Room: Emerald – LL fl.)				
13:30 - 14:50	Keynote Speech 3, (Chair: Young-Sik Jeong) Title: International Collaboration for Privacy and Information Security by Dr. Tai M. Chung , Professor, Sungkyunkwan University, Korea (Room: Sapphire – LL fl.)				
14:50 - 15:10	Coffee Break				
15:10 - 16:30	Keynote Speech 4, (Chair: Robert C.H. Hsu) Title: Cyber-Individual: Visions and Challenges by Dr. Jianhua Ma , Professor, Hosei University, Japan (Room: Sapphire – LL fl.)				
16:30 - 17:00	Break				
17:00 - 18:00	Session 4-A (ISPA-11) (Chair: Min Choi) (Room: Sapphire)	Session 4-B (ISPA & CIA-11) (Chair: Jan-Jan Wu) (Room: Astor)	Session 4-C (ICASE-11) (Chair: Seung Ho Lim) (Room: Charlotte)	Session 4-D (SGH-11) (Chair: Pinaki Sarkar) (Room: Belle-Vue)	Session 4-E (NSTC-11) (Chair: Hyun Sung Kim) (Room: Berkeley)
19:00 - 21:00	Banquet (Lotte Art Hall – 3rd fl.)				



May 28, 2011 (Saturday)					
09:00 - 09:30	Registration				
09:40 - 12:00	Session 5-A (ISPA-11) (Chair: Jongsung Kim) (Room: Astor)	Session 5-B (UMES & Cloud-11) (Chair: Rod Fatoohi) (Room: Charlotte)	Session 5-C (SGSC & ICASE-11) (Chair: Jungsik Cho) (Room: Belle-Vue)	Session 5-D (DATICS & SGSC-11) (Chair: Sang Oh Park) (Room: Berkeley)	Session 5-E (ISPA & CIA-11) (Chair: Yangsun Lee) (Room: Sapphire)
Note	1. A paper presentation should be made by one of authors of the paper, during a 20 minute time slot (15 minutes for the presentation itself and 5 minutes for Q/A). 2. All speakers of each session should meet the session chair at its room 10 minutes before the session. 3. We will prepare Windows 7 laptops running the Adobe Reader and Microsoft Office 2007 for paper presentations. Please prepare your presentation files for being read by those applications. 4. If you have any query, please feel free to contact via (busancon@ftrai.org).				



DETAILED SCHEDULE FOR ISPA 2011

May 26, 2011 (Thursday)

09:00 - 09:30 Registration

09:40 - 12:00 [Session 1-A: ISPA 2011 \(Reliability, Fault Tolerance, and Security\)](#)

(Room: Sapphire, LL floor)

(Chair: SangOh Park)

- **Sitab: Combating Spam in Tagging Systems via Users' Implicit Tagging Behavior**
Longzhi Du, Yonggang Wang, Jianbin Hu, and Zhong Chen
- **Mobile Browser as a Second Factor for Web Authentication**
Zhi Guan, Hu Xiong, Suke Li, and Zhong Chen
- **Phoenix: A Fault-Tolerant Distributed Web Storage Based on URLs**
J.L. Gonzalez and Ricardo Marcelin-Jimenez
- **A Verifiable and Recoverable Secret Image Sharing Mechanism**
Pei-Yu Lin and Chi-Shiang Chan
- **Multi-layer Trust Reasoning on Open Provenance Model for E-Science Environment**
Im Y. Jung, Hyeonsang Eom, and Heon Y. Yeom
- **Fault Injection Attack on A5/3**
Kitae Jeong, Yuseop Lee, Jaechul Sung, and Seokhie Hong
- **ADAT: An Adaptable Dynamic Analysis Tool for Race Detection in OpenMP Programs**
Young-Joo Kim, Sejun Song, and Yong-Kee Jun

09:40 - 12:00 [Session 1-B: ISPA 2011 \(Middleware\)](#)

(Room: Astor, 42nd floor)

(Chair: Menghui Yang)

- **Extending the Globus Information Service with the Common Information Model**
I. Díaz, G. Fernández, P. González, M.J. Martín, and J. Touriño
- **Improve the Data Locality of MapReduce by Scheduling in Homogeneous Environment**
Xiaohong Zhang, Zhiyong Zhong, Shengzhong Feng, Bibo Tu, and Jianping Fan
- **FedMi: A Federation Middleware for Integrating Heterogeneous Data Grids**
Chien-Min Wang, Hsi-Min Chen, Chun-Chen Hsu, and Chi-Chang Huang
- **A History-based Performance Prediction Model with Profile Data Classification for Automatic Task Allocation in Heterogeneous Computing Systems**
Katsuto Sato, Kazuhiko Komatsu, Hiroyuki Takizawa, and Hiroaki Kobayashi
- **Device-Independent Middleware for Industrial Wireless Sensor Networks**
José Cecílio, João Costa, Pedro Martins, and Pedro Furtado



- **Hybrid OpenCL: Enhancing OpenCL for Distributed Processing**
Ryo Aoki, Shuichi Oikawa, Takashi Nakamura, and Satoshi Miki

09:40 - 12:00 [Session 1-C: ISPA 2011 \(Network and Pervasive Computing\)](#)

(Room: Charlotte, 42nd floor)

(Chair: Jongsung Kim)

- **Spatial Ordering Derivation for One-dimensional Wireless Sensor Networks**
Xiaojun Zhu and Guihai Chen
- **A Novel Architecture and Routing Algorithm for Dynamic Reconfigurable Network-On-Chip**
Li-Wei Wu, Wei-Xiang Tang, and Yarsun Hsu
- **Optimizing CDN Infrastructure for Live Streaming with Constrained Server Chaining**
Zhenyun Zhuang and Chun Guo
- **An Efficient VoD Scheme Combining Fast Broadcasting with Patching**
Sung Soo Moon, Kyung Tae Kim, Seongwoo Lee, Hee Yong Youn, and Ohyoung Song
- **A Two-Level Caching Protocol for Hierarchical Peer-to-Peer File Sharing Systems**
Qiyang Wei, Tingting Qin, and Satoshi Fujita
- **Searching in Internet of Things: Vision and Challenges**
Daqiang Zhang, Laurence T. Yang, and Hongyu Huang

09:40 - 12:00 [Session 1-D: SGH 2011](#)

(Room: Belle-Vue, 42nd floor)

(Chair: Sanghyun Seo)

- **Parallel Extended Basic Operations for Conic Curves Cryptography over Ring Z_n**
Yongnan Li, Limin Xiao, Siming Chen, Hongyun Tian, Li Ruan, and Binbin Yu
- **Secure Communication Using Reed-Muller Codes and Partially Balanced Design In Wireless Sensor Network**
Pinaki Sarkar and Amrita Saha
- **Evaluating the Memory System Performance of Software-Initiated Inter-Core LLC Prepushing**
Min Cai and Zhimin Gu
- **Yet Another Certificateless three-party authenticated key agreement protocol**
Jianbin Hu, Hu Xiong, Zhi Guan, Cong Tang, Yonggang Wang, Wei Xin, and Zhong Chen
- **Balanced Chain-Based Routing Protocol(BCBRP) for Energy Efficient Wireless Sensor Networks**
Kyu Sung Ahn, Dae Gun Kim, Back Sun Sim, Hee Yong Youn, and Ohyoung Song
- **Simulation and Evaluation Snoopy cache coherence protocols with update strategy in shared memory multiprocessor systems**
Bahman Hashemi



- **Personalized recommendation system reflecting user preference and context-awareness for mobile TV**
Suk Jung Yong, Hyung Do Lee, Han Ku Yoo, Hee Yong Youn, and Ohyoung Song

09:40 - 12:00 [Session 1-E: UMES 2011](#)

(Room: Berkeley, 42nd floor)

(Chair: Fan Jing)

- **Bluetooth system designed by RF chip of 802.11**
Ye-hua Li, Ming-hua Xue, Tao Hong, Shuang-li Wu, and Yantao Yu
- **Group Tracking of Flock Targets in Low-Altitude Airspace**
Weishi Chen, Hong Liu, Sha Hu, and Huansheng Ning
- **Secure and Energy-Efficient Image Transmission for Wireless Sensor Networks**
Sungju Lee, Seohyun Jeong, Yongwha Chung, Hyeonjoong Cho, Sung Bum Pan
- **Embedded System Design: An Overview of Brazilian Development**
Rodrigo Weissmann Borges and Evandro L.L. Rodrigues
- **Ball Detection with the Aim of Corner Event Detection in Soccer Video**
J. Hossein-Khani, H. Soltanian-Zadeh, M. Kamarei, and O. Stadt
- **Energy Efficient Multiple Descriptions Coding for Video Sensor Network**
Bambang A.B. Sarif, Victor C.M. Leung, and Panos Nasiopoulos
- **Configuring the Infrastructure of Autonomous Logistics' Control Systems**
Bernd Scholz-Reiter, Steffen Sowade, and Daniel Rippel

12:00 - 13:30 **Lunch (Room: Emerald – LL floor)**

13:30 - 13:40 [Opening Remark](#)

(Room: Sapphire, LL floor)

Prof. Young-Sik Jeong, Wonkwang University, Korea

13:40 - 14:50 [Keynote Speech 1 : ISPA 2011](#)

(Room: Sapphire, LL floor)

(Chair: Young-Sik Jeong)

**Software Engineering Approaches to the Challenges in Technology Education
and System Development in the Software Ecosystem Environment**

C.V. Ramamoorthy, Professor, University of California at Berkeley, USA



14:50 - 15:10 Coffee Break

15:10 - 16:20 **Keynote Speech 2 : ISPA 2011**

(Room: Sapphire, LL floor)

(Chair: Cho-Li Wang)

Research Frontiers in The Clouds, Many-Core and Internet of Things

Dr. Kai Hwang, Professor, University of Southern California, USA

16:20 - 16:40 Break

16:40 - 18:00 **Session 2- A: ISPA 2011 (Middleware & Network and Pervasive Computing)**

(Room: Sapphire, LL floor)

(Chair: Sejun Song)

- **A Hybrid Shared-nothing/Shared-data Storage Scheme for Large-scale Data Processing**
Huaiming Song, Xian-He Sun, and Yong Chen
- **Tool Chain Support with Dynamic Profiling for RISP**
Chao Wang, Huizhen Zhang, Xuehai Zhou, Jinsong Ji, and Aili Wang
- **Splitting TCP for MPI applications executed on grids**
Olivier Glück and Jean-Christophe Mignot
- **Energy-Efficient DRX Scheduling for QoS Traffic in LTE Networks**
Kuo-Chang Ting, Hwang-Cheng Wang, Chih-Cheng Tseng, and Fang-Chang Kuo

16:40 - 18:00 **Session 2-B: ISPA 2011 (Performance Simulations and Evaluations)**

(Room: Astor, 42nd floor)

(Chair: Carla Osthoff)

- **End-to-End Schedulability Analysis for Bi-directional Real-Time Multistage Pipeline Execution**
Shenglin Gui and Lei Luo
- **Schedulability Analysis for Distributed Systems Using Network of Action Automata and Environment Automata**
Shenglin Gui, Lei Luo, Miao Yu, Jianhua Xu, and Yun Li
- **Performance Comparison with OpenMP Parallelization for Multi-core Systems**
Chao-Tung Yang, Tzu-Chieh Chang, Hsien-Yi Wang, William C.C. Chu, and Chih-Hung Chang



- **A Novel Approach for Finding Optimization Opportunities in Multicore Architectures**
Ching-Chi Lin, Pangfeng Liu, and Jan-Jan Wu

16:40 - 18:00 [Session 2-C: ISPA 2011 \(Algorithms and Applications\)](#)

(Room: Charlotte, 42nd floor)

(Chair: Yen-Chun Lin)

- **Accelerating DFA Construction by Hierarchical Merging**
Yanbing Liu, Li Guo, Muyi Guo, and Ping Liu
- **New Parallel Prefix Algorithm for Multicomputers**
Yen-Chun Lin and Chun-Yu Ko
- **Using Quantum Search to solve Dynamic Maximum Network Flow Problem**
Chi-Yuan Chen, Yu-Chuan Lin, Yao-Hsin Chou, and Han-Chieh Chao
- **HSK: A Hierarchical Parallel Simulation Kernel for Multicore Platform**
Tang Wenjie and Yiping Yao

16:40 - 18:00 [Session 2-D: ICASE-11](#)

(Room: Belle-Vue, 42nd floor)

(Chair: Amy Poh Ai Ling)

- **Advanced Computational Intelligence System for Inverse Aeronautical Design Optimisation**
DongSeop Lee, Jacques Periaux, Eugenio Onate, and Luis Felipe Gonzalez
- **Registry and Discovery of Services with Variability based on 2-level UDDI**
Keunhyuk Yeom, Joonseok Park, and Mikyeong Moon
- **Privacy Protection in Pervasive Healthcare Monitoring Systems with Active Bundles**
Raed M. Salih, Lotfi Ben Othmane, and Leszek Lilien
- **A Fuzzy-ECM Approach to Estimate Software Project Schedule under Uncertainties**
Jian-Hong He, Xiaoing Bai, Qi Lin, and Daode Xiong

16:40 - 18:00 [Session 2-E: PETSE 2011 & GSDP 2011](#)

(Room: Berkeley, 42nd floor)

(Chair: LI Ye-hua)

- **User Input Pattern-based Authentication Method to Prevent Mobile e-Financial Incidents**
Hojin Seo and Huy Kang Kim
- **Network Forensic Evidence Acquisition (NFEA) with Packet Marking**
Hyung Seok Kim and Huy Kang Kim



- **Application of an ERM Framework and Its Real-Time System for Disaster Risk Management**
Taeho Park, Beom-Cheol Park, Dong Ha Lee, Jae-Bong Kim
- **Pangandaran Village Resiliency Level due to Earthquake and Tsunami Risk**
Mizan Bustanul Fuady Bisri

18:30 - 20:00 **Conference Reception (Room: Emerald – LL floor)**



May 27, 2011 (Friday)

09:00 - 09:30 Registration

10:00 - 12:00 [Session 3-A: ISPA 2011 \(Algorithms and Applications\)](#)

(Room: Sapphire, LL floor)

(Chair: Chao Wang)

- **A Non-blocking Programming Framework for Pipeline Application on Shared Memory Computers**
Xiaoqiang Li, Hong An, Gu Liu, Wenting Han, Mu Xu, Wei Zhou, and Qi Li
- **Parallel Integral Image Generation Algorithm on Multi-core System**
Yi-Ta Wu, Yih-Tyng Wu, Chao-Yi Cho, Shau-Yin Tseng, Chun-Nan Liu, and Chung-Ta King
- **A parallel 3D Delaunay triangulation method**
Min-Bin Chen
- **Dynamic Memory Demand Estimating Based on the Guest Operating System Behaviors for Virtual Machines**
Yan Niu, Chun Yang, and Xu Cheng
- **A Priority-Aware NoC to Reduce Squashes in Thread Level Speculation for Chip Multiprocessors**
Wenbo Dai, Hong An, Qi Li, Gongming Li, Bobin Deng, Shilei Wu, Xiaomei Li, and Yu Liu

10:00 - 12:00 [Session 3-B: ISPA 2011 \(Reliability, Fault Tolerance, and Security & Database and Data Mining, Data Management & Performance Simulations and Evaluations\)](#)

(Room: Astor, 42nd floor)

(Chair: Jongsung Kim)

- **Matrix Multiplication on GPUs with On-Line Fault Tolerance**
Chong Ding, Christer Karlsson, Hui Liu, Teresa Davies, and Zizhong Chen
- **Evaluating the Functionality of the Token Filtering Technique in Filtering Denial of Service Packets Using a New Formal Evaluation Model**
Mohammed Alhabeeb, Phu Dung Le, and Bala Srinivasan
- **Parallel Aggregation Queries over Star Schema: A Hierarchical Encoding Scheme and Efficient Percentile Computing as a Case**
Xiongpai Qin, Huiju Wang, Xiaoyong Du, and Shan Wang
- **An Empirical Study on Memory Sharing of Virtual Machines for Server Consolidation**
Chao-Rui Chang, Jan-Jan Wu, and Pangfeng Liu
- **Energy-Efficient Framework for Networks of Large-Scale Distributed Systems**
Anne-Cécile Orgerie and Laurent Lefèvre



10:00 - 12:00 [Session 3-C: ICASE 2011](#)**(Room: Charlotte, 42nd floor)****(Chair: Sanghyun Seo)**

- **Distribution-Transparency in Runtime Verification**
Somayeh Malakuti, Mehmet Aksit, and Christoph Bockisch
- **Process & Evidence enable to automate ALM (Application Lifecycle Management)**
Jeong Ah Kim, Seung Young Choi, and Sun Myung Hwang
- **A Lightweight, Component-based Approach to Engineering Reconfigurable Embedded Real-Time Control Software**
Jagun Kwon and Stephen Hailes
- **A Visualization Technique for the Passage Rates of Unit Testing and Static Checking with Caller-Callee Relationships**
Yuko Muto, Kozo Okano, and Shinji Kusumoto
- **Exploiting Module Locality to Improve Software Fault Prediction**
Cheng-Zen Yang, Ing-Xiang Chen, and Chin-Sung Fan-Chiang

10:00 - 12:00 [Session 3-D: SGH 2011](#)**(Room: Belle-Vue, 42nd floor)****(Chair: Xiaojun Zhu)**

- **Interaction-Aware Dynamic Power Optimization Scheme for Wireless Networks Interface Cards**
Wang Jing, Guan Xuetao, and Cheng Xu
- **Traceable Anonymous Authentication Scheme for Vehicular Ad-hoc Networks**
Zeen Kim, Junhyun Yim, Jangseong Kim, Kwangjo Kim, and Taeshik Sohn
- **A Configurable Approach to Tolerate Soft Errors via Partial Software Protection**
Lei Xiong and Qingping Tan
- **Untraceable and Serverless RFID Authentication and Search Protocols**
Zeen Kim, Jangseong Kim, Kwangjo Kim, Imsung Choi, and Taeshik Shon
- **Using folksonomies for Building User Preference List**
Harshit Kumar, Pil Seong Park, and Hong Gee Kim

10:00 - 12:00 [Session 3-E: CIA 2011 & NSTC 2011](#)**(Room: Berkeley, 42nd floor)****(Chair: Changhoon Lee)**

- **Adaptive Motion Vector Smoothing for Improving Side Information in Distributed Video coding**
Ok-Hue Cho, Yong-Chul Kwon, Won-Hyung Lee



- **Brushstroke control from image saliency**
Hochang Lee, Sanghyun Seo, Seungtaek Ryoo, Kyunghyun Yoon
- **Trusted Computing Dynamic Attestation by Using Static Analysis based Behavior Model**
Fajiang Yu, Xianglei Tang, Yue Yu, Tong Li, and Tong Yang
- **A Queuing based Transferring and Listening Mechanism in Multi-hop Wireless Mesh Sensor Network**
Fan Jing, Gao Fei, Wang WanSheng, and Xie Jianbin

12:00 - 13:30 Lunch (Room: Emerald – LL floor)

13:30 - 14:50 Keynote Speech 3: ISPA 2011
(Room: Sapphire, LL floor)
(Chair: Young-Sik Jeong)

International Collaboration for Privacy and Information Security

Dr. Tai M. Chung, Sungkyunkwan University, Korea

14:50 - 15:10 Coffee Break

15:10 - 16:30 Keynote Speech 4: ISPA 2011
(Room: Sapphire, LL floor)
(Chair: Robert C.H. Hsu)

Cyber-Individual: Visions and Challenges

Dr. Jianhua Ma, Professor, Hosei University, Japan

16:30 - 17:00 Break



17:00 - 18:00 [Session 4-A: ISPA 2011 \(Architectures and Virtualization\)](#)**(Room: Sapphire, LL floor)****(Chair: Min Choi)**

- **A Novel Predictive and Self Adaptive Dynamic Thread Pool Management**
Kang-Lyul Lee, Hong Nhat Pham, Hee-seong Kim, Hee Yong Youn, and Ohyoung Song
- **Vega LingCloud: A Resource Single Leasing Point System to Support Heterogeneous Application Modes on Shared Infrastructure**
Xiaoyi Lu, Jian Lin, Li Zha, and Zhiwei Xu
- **A Flexible High Speed Star Network Based on Peer to Peer Links on FPGA**
Chao Wang, Junneng Zhang, Xuehai Zhou, Xiaojing Feng, and Aili Wang

17:00 - 18:00 [Session 4-B: ISPA 2011 \(Performance Simulations and Evaluations\)](#)**(Room: Astor, 42nd floor)****(Chair: Jan-Jan Wu)**

- **Robustness Analysis of Artificial Neural Networks and Support Vector Machine in Making Prediction**
Saiful Anwar and Rifki Ismal
- **Preventing Denial of Service Attacks in Government E-Services Using a New Efficient Packet Filtering Technique**
Mohammed Alhabeeb, Phu Dung Le, and Bala Srinivasan

17:00 - 18:00 [Session 4-C: ICASE 2011](#)**(Room: Charlotte, 42nd floor)****(Chair: Seung Ho Lim)**

- **Development of the RESTful JPIC SDK for the application using public information**
WoongChul Choi and JungHun Kim
- **A Practical Web Service Composition**
HwaYoung Jeong and BongHwa Hong
- **Fair Scheduling Strategy for Delay-Sensitive Handover of IEEE 802.16 Real-Time Communications**
DongHo Kim, SoonSeok Kim, and YongHee Lee

17:00 - 18:00 [Session 4-D: SGH 2011](#)**(Room: Belle-Vue, 42nd floor)****(Chair: Pinaki Sarkar)**

- **The Effect of Correlated Failure on the Reliability of HPC Systems**
Thanadech Thanakornworakij, Raja Nassar, Chokchai Box Leangsuksun, and Mihaela Paun



- **Sampling Rate and Data Quality Issues: Experiments from Ginseng Industrial Deployment**
José Cecílio, João Costa, Pedro Martins, and Pedro Furtado
- **Understanding How Non-Uniform Distribution of Memory Accesses on Cache Sets Affects the System Performance of Chip Multiprocessors**
Xiaomin JIA, Jiang JIANG, Xiaoqiang NI, Tianlei ZHAO, Shubo QI, Guitao FU, Minxuan ZHANG

17:00 - 18:00 [Session 4-E: NSTC 2011](#)

(Room: Berkeley, 42nd floor)

(Chair: Hyun Sung Kim)

- **Evolutionary design of S-box with cryptographic properties**
Min Yang, Zhangyi Wang, Qingshu Meng, and Lansheng Han
- **Network Anomaly Detection based on Projection Pursuit Regression**
Cai Fu, LanSheng Han, QinLei Li, Xiaohu Wang, XiaoYang Liu, and Ping Li
- **A Multi-level Grey Evaluation Model for Harms of Computer Virus**
Ming Liu, Lansheng Han, Bing Peng, and Cong Zheng

19:00 - 21:00 **Banquet (Lotte Art Hall – 3rd Floor)**



May 28, 2011 (Saturday)

09:00 - 09:30 Registration

09:40 - 12:00 [Session 5-A: ISPA 2011 \(Algorithms and Applications\)](#)

(Room: Astor, 42nd floor)

(Chair: Jongsung Kim)

- **GPGPU Acceleration Algorithm for Medical Image Reconstruction**
Virasin Archirapatkave, Hendra Sumilo, Simon Chong Wee See, and Tiranee Achalakul
- **An Equilibrium-based Approach for Determining Winners in Combinatorial Auctions**
ChenKun Tsung, HannJang Ho, and SingLing Lee
- **An Impulse Noise Removal Algorithm by Considering Region Property for Color Image**
Yi-Ta Wu, Yih-Tyng Wu, Shau-Yin Tseng, and Chao-Yi Cho
- **Efficient Resource Selection Algorithm for Enterprise Grid Systems**
Wan Nor Shuhadah Wan Nik, Bing Bing Zhou, Albert Y. Zomaya, and Jemal H. Abawajy
- **Performance Evaluation of Wireless Sensor Networks for Mobile Sensor Nodes Considering Goodput and Depletion Metrics**
Leonard Barolli, Tao Yang, Gjergji Mino, Arjan Durresi, Fatos Xhafa, and Makoto Takizawa
- **Improving Performance on Atmospheric Models through a Hybrid OpenMP/MPI Implementation**
Carla Osthoff, Pablo Grunmann, Francieli Boito, Rodrigo Kassick, Laercio Pilla, Philippe Navaux, Claudio Schepke, Jairo Panetta, Nicolas Maillard, Pedro L. Silva Dias, and Robert Walko
- **On Using Pattern Matching Algorithms in MapReduce Applications**
Nikzad Babaii Rizvandi, Javid Taheri, and Albert Y. Zomaya

09:40 - 12:00 [Session 5-B: UMES 2011 & CloudGrid 2011](#)

(Room: Charlotte, 42nd floor)

(Chair: Rod Fatoohi)

- **Design and Implementation of a Self-Configuring Instrument Control System**
Iztok Marjanovic and Rod Fatoohi
- **Utterance Classification for Combination of Multiple Simple Dialog Systems**
Seong-Jun Hahm, Akinori Ito, Kentaro Awano, Masashi Ito, and Shozo Makino
- **A System Proposal for Multimodal Retrieval of Multimedia Documents**
Mohamed Kharrat, Anis Jedidi, and Faiez Gargouri



- **Analysis of Motion Vector Predictor in Multiview Video Coding System**
Seungchul Ryu, Jungdong Seo, Xingang Liu, Jin Young Lee, Hochen Wey, and Kwanghoon Sohn
- **A Central Control System for the Environmental Laboratory**
Jin Pan and Xingang Liu
- **Optimal Web Service Selection and Composition and using Multi-Objective Bees Algorithm**
G. Kousalya, D. Palanikkumar, and P.R. Piriyanaka
- **Dynamic Voltage Adjustment for Energy Efficient Scheduling on Multi-core Systems**
Ching-Hsien Hsu, Shih-Chang Chen, and Chao-Tung Yang

09:40 - 12:00 [Session 5-C: SGSC 2011 & ICASE 2011](#)

(Room: Belle-Vue, 42nd floor)

(Chair: Jungsik Cho)

- **Affordable privacy for home smart meters**
Georgios Kalogridis, Zhong Fan, Sagar Basutkar
- **Selection of model in developing Information Security criteria on Smart Grid Security System**
Amy Poh Ai Ling, Masao Mukaidono
- **Network Time Protocol Based Time-Varying Encryption System for Smart Grid Meter**
Te-Kwei Wang, Fan-Ren Chang
- **Two-Layer Security Scheme for AMI System in Taiwan**
Ping-Hai Hsu, Wenshiang Tang, Chiakai Tsai, and Bo-Chao Cheng
- **OMAP: One-way Memory Attestation Protocol for Smart Meters**
Kyungsub Song, Dongwon Seo, Haemin Park, Heejo Lee, Adrian Perrig
- **Secure and Efficient Capability-based Power Management in the Smart Grid**
Dongwon Seo, Heejo Lee, Adrian Perrig
- **Developing E-Radio: An Online Audio Streaming Application**
Jonathan Mark Te, Syarief Muhammad Asbir, Ricky Louie de la Cruz, Novera Marie Jabel, Kristine Refugido, and Dave Marcial

09:40 - 12:00 [Session 5-D: DATICS 2011 & SGSC 2011](#)

(Room: Berkeley, 42nd floor)

(Chair: Sang Oh Park)

- **Concurrent Error Detection Adder Based On Two Paths Output Computation**
Chiraz Khedhiri, Mouna Karmani, Belgacem Hamdi, and Ka Lok Man
- **Reduce Leakage Currents in Low Power SRAM Cell Structures**
Rajeev P. Anand and Chandra P. Sekhar
- **Accurate constraints aware mapping on Coarse Grained Reconfigurable Architecture**
Peng Zhang, Huiqiong Luo, and K.L. Man



- **Concurrent Online Test Architecture for Multiple Controller Blocks with Minimum Fault Latency**
Philemon Daniel and Rajeevan Chandel
- **Modeling and Analysis of Radiation Therapy System with Respiratory Compensation using Uppaal**
Ka Lok Man, Tomas Krilavicius, Kaiyu Wan, Danny Hughes, and Kevin Lee
- **Scheduling of Energy Storage Systems with Geographically Distributed Renewables**
Alberto J. Lamadrid, Tim D. Mount, and Robert J. Thomas

09:40 - 12:00 [Session 5-E: ISPA 2011](#)

(Room: Sapphire, LL floor)

(Chair: Yangsun Lee)

- **A Hierarchical Middleware Architecture for Efficient Home Control through an IPv6-based Global Network**
Sang Oh Park, Tae Hoon Do, Sung Jo Kim
- **Hash-based RFID tag Mutual Authentication Scheme with Retrieval Efficiency**
Jung-Sik Cho, Soo-Cheol Kim, Sung Kwon Kim
- **RFID System Security Analysis, Response Strategies and Research Directions**
Jung-Sik Cho, Soo-Cheol Kim
- **GPU Computing for Longwave Radiation Physics: A RRTM_LW scheme case study**
Fengshun Lu, Xiaoqun Cao, Junqiang Song, Xiaoqian Zhu
- **Tomographic Medical Image Reconstruction Using Kalman Filter Technique**
Shayan Goliei, Seyed Ghorshi



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