

FTRA WCC 2011 PROGRAM SCHEDULE

December 12, 2011 (Monday)												
open at 09:00	Registration											
09:20- 12:00	Session 1-A (APSCC) Chair: Seung-Ho Lim Room: Samda-A	Session 1-B (APSCC) Chair: Min Choi Room: Samda-B	Session 1-C (CSA) Chair: Jin-Mook Kim Room: 402-A	Session 1-D (CSA) Chair: Jaeik Cho Room: 402-B	Session 1-E (ACSA) Chair: Namje Park Room: 301-A	Session 1-F (ACSA) Chair: Jincheon Kang Room: 301-B	Session 1-G (ACSA) Chair: Kitae Jeong Room: 302	Session 1-H (ACSA) Chair: Feng Zhao Room: 303-A	Session 1-I (APSCC) Chair: HyukJun Kwon Room: 303-B	Session 1-K (HPGC) Chair: Javier Cerviño Room: 400	Session 1-L (WTA) Chair: Taeshik Shon Room: 401-A	Session 1-M (AFMS) Chair: Sang Oh Park Room: 401-B
12:00- 13:30	Lunch											
13:30- 14:40	Invited Talk 1 Title : On the Trends and Challenges in Green Information and Communication Technology and Samples of Some of our Related Research Results by Prof. Mohammad S. Obaidat , Computer Science and Software Engineering, Monmouth University, USA Halla Hall A / Chair: Sang-Soo Yeo											
14:40- 15:00	Coffee Break											
15:00- 16:10	Invited Talk 2 Title : Overlaying Communication Infrastructure For Heterogeneous Multiagent Distributed Intelligence by Prof. Habib F. Rashvand , School of Engineering, University of Warwick, United Kingdom Halla Hall A / Chair: Jongsung Kim											
16:10- 16:30	Coffee Break											
16:30- 18:30	Session 2-A (APSCC) Chair: Wu Budan Room: Samda-A	Session 2-B (APSCC) Chair: Zhao Yujing Room: Samda-B	Session 2-C (CSA) Chair: Hae-gill Choi Room: 402-A	Session 2-D (CSA) Chair: Alex Kuo Room: 402-B	Session 2-E (ACSA) Chair: Raylin Tso Room: 301-A	Session 2-F (ACSA) Chair: Gokay Saldamli Room: 301-B	Session 2-G (ACSA) Chair: Yuseop Lee Room: 302	Session 2-H (WTA) Chair: Min Choi Room: 303-A	Session 2-I (APSCC) Chair: Dung Cao Room: 303-B	Session 2-K (HPGC) Chair: Shang guang Wang Room: 400	Session 2-L (WTA) Chair: Seung-Ho Lim Room: 401-A	Session 2-M (AFMS) Chair: SangHyun Seo Room: 401-B
19:00- 20:30	Welcome Reception Party OCEAN VIEW (5F)											



台灣軟體模擬學會
Software Simulation Society in Taiwan



SAMSUNG SDS



The 2011 FTRA World Convergence Conference (FTRA WCC 2011)

December 13, 2011 (Tuesday)												
open at 09:00	Registration											
09:20- 12:00	Session 3-A (APSCC) Chair: Mohamed Shalaby Room: Samda-A	Session 3-B (APSCC) Chair: Nihita Goel Room: Samda-B	Session 3-C (CSA) Chair: Youngkon Lee Room: 402-A	Session 3-D (CSA) Chair: Xiaodong Yang Room: 402-B	Session 3-E (ACSA) Chair: Zhiwei Wang Room: 301-A	Session 3-F (ACSA) Chair: Fanbao Liu Room: 301-B	Session 3-G (ACSA) Chair: Seung-Ho Lim Room: 302	Session 3-H (uHealthcare) Chair: Soonseok Kim Room: 303-A	Session 3-J (SSMIT) Chair: Hyukjun Kwon Room: 303-B	Session 3-K (HPGC) Chair: Qiu Tie Room: 400	Session 3-L (WTA) Chair: Hyunhee Park Room: 401-A	Session 3-M (AFMS) Chair: SangHyun Seo Room: 401-B
12:00- 13:30	Lunch											
13:30- 15:30	Session 4-A (APSCC) Chair: Abdelghani Benharref Room: Samda-A	Session 4-B (APSCC) Chair: Young-Sik Jeong Room: Samda-B	Session 4-C (CSA) Chair: Bong-Hwa Hong Room: 402-A	Session 4-D (CSA) Chair: Deok Gyu Lee Room: 402-B	Session 4-E (ACSA) Chair: Ching-Nung Yang Room: 301-A	Session 4-F (ACSA) Chair: Lin Yao Room: 301-B	Session 4-G (ACSA) Chair: Young-Gab Kim Room: 302	Session 4-H (VCT) Chair: Dong Yong Kwak Room: 303-A	Session 4-J (uHealthcare) Chair: Hyukjun Kwon Room: 303-B	Session 4-K (HPGC) Chair: Pham Thi Thu Thuy Room: 400	Session 4-L (WTA) Chair: Chulung Lee Room: 401-A	Session 4-M (AFMS) Chair: Jongmyon Kim Room: 401-B
15:30- 15:50	Coffee Break											
15:50- 17:00	<p align="center">Invited Talk 3</p> <p align="center">Title : WiMAX? A Case Study on Minimizing Construction Cost for IEEE 802.16j Multi-hop Relay Networks</p> <p align="center">by Prof. Han-Chieh Chao, Computer & IT Center, National Ilan University, Taiwan, ROC</p> <p align="center">Halla Hall A / Chair: Hangbae Chang</p>											
17:00- 17:20	Coffee Break											
17:20- 18:30	<p align="center">Invited Talk 4</p> <p align="center">The challenges and practices on Cloud Security</p> <p align="center">by Prof. Hai Jin, Huazhong University of Science and Technology (HUST), China</p> <p align="center">Halla Hall A / Chair: Seungmin Rho</p>											
19:00- 21:30	<p align="center">Conference Banquet</p> <p align="center">CRYSTAL BALLROOM, Banquet Building, Lotte Hotel Jeju</p>											

The 2011 FTRA World Convergence Conference (FTRA WCC 2011)

December 14, 2011 (Wednesday)

Open at 09:00	Registration											
09:30- 12:30	Session 5-A (APSCC) Chair: Mohamed Shalaby Room: Samda-A	Session 5-B (APSCC) Chair: Changhoon Lee Room: Samda-B	Session 5-C (CSA) Chair: Yuseop Lee Room: 402-A	Session 5-D (CSA) Chair: Jinkeon Kang Room: 402-B	Session 5-E (ACSA) Chair: Min Choi Room: 301-A	Session 5-F (ACSA) Chair: Deok Gyu Lee Room: 301-B	Session 5-G (ACSA) Chair: Dukjae Moon Room: 302	Session 5-H (VCT) Chair: Dong Kyoo Kim Room: 303-A	Session 5-J (SSMIT) Chair: Dongsoo Kim Room: 303-B	Session 5-K (AAISS) Chair: Jongmyon Kim Room: 400	Session 5-L (WTA) Chair: Jaek Cho Room: 401-A	Session 5-M (AFMS) Chair: Sang-Soo Yeo Room: 401-B

December 15, 2011 (Thursday)

09:30- 12:00	FTRA Executive Meeting Ruby Room, Lotte Hotel Jeju
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1. **APSCC & CSA:** 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. **WCC:** A paper presentation should be made by one of authors of the paper, during a 30 minute time slot (20 minutes for the presentation itself and 10 minutes for Q/A).
3. All speakers of each session should meet the session chair at its room 10 minutes before the session begins.
4. We will prepare Windows XP laptops running the Adobe Reader and Microsoft Office 2003 for paper presentations. Please prepare your presentation files for being read by those applications.
5. If you have any questions, please feel free to contact the secretary (jejucon@ftra.org).



DETAILED SCHEDULE FOR FTRA WCC 2011

December 12, 2011 (Monday)

09:20 - 12:00 [Session 1-E: ACSA 2011](#)

(Room: 301-A)

(Chair: Namje Park)

- **Cherub: Fine-grained Application Protection with On-demand Virtualization**
Hai Jin, Ge Cheng, Deqing Zou, Xinwen Zhang
- **Secure and Efficient Data Retrieval over Encrypted Data Using Attribute-Based Encryption in Cloud Storage**
DONGYOUNG KOO, JUNBEOM HUR, HYUNSOO YOON
- **Unified Threat Model for Analyzing and Evaluating Software Threats**
XiaoHong Li, Ke He, Zhiyong Feng, Guangquan Xu
- **An ID-based Online/Offline Signature Without Random Oracle for Wireless Sensor Network**
Zhiwei Wang, Wei Chen
- **Bayesian Approach with Maximum Entropy Principle for Trusted Quality of Web Service Metric in E-commerce Applications**
Shangguang Wang, Hua Zou, Qibo Sun, Fangchun Yang

09:20 - 12:00 [Session 1-F: ACSA 2011](#)

(Room: 301-B)

(Chair: Jinkeon Kang)

- **On the Composability of Statistically Secure Bit Commitments**
Rafael Dowsley, Jeroen van de Graaf, Joern Mueller-Quade, Anderson C A Nascimento
- **Online Game Bot Detection based on party-play log analysis**
Ah Reum Kang, Jiyoung Woo, Juyong Park, Huy Kang Kim
- **UFLE: A User-friendly Location-free Encryption System for Mobile Users**
Yi-Jun He, Patrick P.F. Chan, Lucas.C.K. Hui, Siu Ming Yiu
- **Privacy-Preserving Similarity Coefficients for Binary Data**
Kok-Seng Wong, Myunng-Ho Kim
- **Security analysis of Scalable Block cipher PP-1**
Yuseop Lee, Kitae Jeong, Yongpyo Hong, Jaechul Sung, Seokhie Hong

09:20 - 12:00 [Session 1-G: ACSA 2011](#)

(Room: 302)

(Chair: Kitae Jeong)

- **A New Way to Generate a Ring: Universal Ring Signature**
Raylin Tso
- **Improved Hashing onto Elliptic curves over F_{3m} for Pairing-based Cryptosystems**
Young In Cho, Nam Su Chang, Chang Han Kim, Seokhie Hong



- **An Efficient CCA-Secure Cryptosystem Over Ideal Lattice from Identity-Based Encryption**
Yang XiaoYuan, Wu LiQiang, Zhang MinQing, Chen XiaoFeng
- **A Requirement-driven Method for Secure and Reliable Web Service Composition**
Guisheng Fan, Huiqun Yu, Liqiong Chen
- **Programming Optimization Model for Cryptographic Algorithm on Graphics Processing Unit**
HwanJin Lee, DongHoon Shin, Hyun-Chul Jung, Junghwan Song

09:20 - 12:00 [Session 1-H: ACSA 2011](#)

(Room: 303-A)

(Chair: Feng Zhao)

- **Aspect Ration Invariant Visual Cryptography by Image Filtering and Resizing**
Ching-Nung Yang, Pin-Wei Chen, Hsiang-Wen Shih, Cheonshik Kim
- **Unbalanced States Violates RFID Privacy**
Imran Erguler, Emin Anarim, Gokay Saldamli
- **A Practical Implementation of Fuzzy Fingerprint Vault for Smart Cards**
Daesung Moon, Yongwha Chung, Changho Seo Seo, Sung-Young Kim, Jeong-Nyeo Kim
- **A Sensitive Data Aggregation Scheme for Body Sensor Networks Based on Data Hiding**
Jiankang Ren, Guowei Wu, Lin Yao

09:20 - 12:00 [Session 1-K: HPGC 2011](#)

(Room: 400)

(Chair: Javier Cerviño)

- **P-tracert Source-path Discovery in Topology-aware Application Layer Multicast**
Jianqun Cui, Naixue Xiong Jong Hyuk Park, Keming Jia, Mincai Lai, Chuanhe Chen
- **Data Storage and Transfer Management for Visual Sensor Networks**
Seung-Ho Lim, Min Choi
- **Model Analysis and Scheduling Strategy for Embedded Multi-core SoC Based on Task Priority**
Tie Qiu, He Jiang, Lin Feng, Yu Zhou, YanHong Ding
- **Using Contextual Information to Assist Desktop Search**
Ning Lv, Qin Leihua, Jingli Zhou, Yin Mao
- **AdaptIDC: Adaptive Inter-Domain Communication in Virtualized Environment**
Xiaofei Liao, Kai Chen, Hai Jin

09:20 - 12:00 [Session 1-L: WTA 2011](#)

(Room: 401-A)

(Chair: Taeshik Shon)

- **Maximizing Network Lifetime of Rotatable Directional Sensor Networks with Coverage and Connectivity Requirements**
Joon-Min Gil, Youn-Hee Han, Young-Sik Jeong, Chan Yeol Park
- **Intelligent Route Generation: Discovery and Search of Correlation between Shared Resources**
Neil Y. Yen, Qun Jin, Jianhua Ma, Runhe Huang, Timothy K. Shih
- **Compact Hardware Architecture for Cryptography in**
Mooseop Kim, Youngsae Kim, Deok Gyu Lee

- **Non-fragile H Filtering for a Class of Sampled-data System with Long Time-delay**
Shigang Wang, Junfeng Wu
- **Exploring the Challenges in Wi-Fi/GPS Hybrid Positioning Systems**
Syed Faraz Hasan, Jiyun Lee

09:20 - 12:00 **Session 1- M: AFMS 2011**

(Room: 401-B)

(Chair: Sang Oh Park)

- **An Analysis on Content-Based Classification of Audio by using a Fuzzy C-Means Algorithm**
Mohammad Haque, Jongmyon Kim
- **Design Space Exploration of Many-Core Processors for Camera-on-a-Chip**
Yongmin Kim, Myeongsu Kang, Jongmyon Kim
- **A heaviest hitters limiting mechanism with $O(1)$ time complexity for sliding-window data streams**
Remous-Aris Koutsiamanis, Pavlos S. Efraimidis
- **SOM AND FUZZY BASED COLOR IMAGE SEGMENTATION**
Arfan Jaffar, Ahmad Khan, Tae-Sun Choi
- **Practical Service Level Agreement Negotiation Scheme for Multicast Service in WiMAX**
Lee JooHyung, Lee JongMin, Choi SeongGon, Choi JunKyun

12:00 - 13:30 **Lunch (Room: DELIZIA – 3F)**

13:30 - 14:40 **Invited Talk 1**

(Room: Halla Hall A)

(Chair: Sang-Soo Yeo)

On the Trends and Challenges in Green Information and Communication Technology and Samples of Some of our Related Research Results

Prof. Mohammad S. Obaidat

Computer Science and Software Engineering, Monmouth University, USA

14:40 - 15:00 **Coffee Break**



15:00 - 16:10 **Invited Talk 2**
(Room: Halla Hall A)
(Chair: Jongsung Kim)

**Overlaying Communication Infrastructure For Heterogeneous
Multiagent Distributed Intelligence**

Prof. Habib F. Rashvand

School of Engineering, University of Warwick, United Kingdom

16:10 - 16:30 **Coffee Break**

16:30 - 18:30 **Session 2-E: ACSA 2011**
(Room: 301-A)
(Chair: Raylin Tso)

- **Beyond Lightning: A Survey on Security Challenges in Cloud Computing**
Chunming Rong, Son Nguyen, Martin Jaatun
- **Practical Parallel Key-Insulated Encryption with Multiple Helper Keys**
Yanli Ren, Shuozhong Wang, Xinpeng Zhang
- **An efficient CP-ABE scheme with constant size ciphertext**
In Tae Kim, Nghiem Xuan Hung, Seong Oun Hwang
- **Identity Based Construction for Secure and Efficient Handoff Authentication Schemes in Wireless Networks**
YINGHUI ZHANG, XIAOFENG CHEN, HUI LI, JIN CAO

16:30 - 18:30 **Session 2-F: ACSA 2011**
(Room: 301-B)
(Chair: Gokay Saldamli)

- **Centralized Key Distribution Protocol using Greatest Common Divisor Method**
Vijayakumar P, Bose S, Kannan A, Himesh P.H.
- **On the Security of PPPoE Network**
Fanbao Liu, Yumeng Feng, Yuan Cao
- **State- and Action-Based Fairness Verification of Mobile Sink Routing in Wireless Sensor Network**
Guangquan Xu, Yingyuan Xiao, Honghao Gao, Xiaohong Li, Zhiyong Feng, Jia Mei
- **A Secret Sharing Scheme for EBTC using Steganography**
Cheonshik Kim, Dongkyoo Shin, Dongil Shin, Raylin Tso, Ching-Nung Yang

16:30 - 18:30 [Session 2-G: ACSA 2011](#)

(Room: 302)

(Chair: Yuseop Lee)

- **Construction of Balanced Rotation Symmetric Boolean Functions with Maximum Algebraic Immunity**
Xiaowen Xiong, Aiguo Wei, Min Wang, Ruilin Li
- **A Collaborative Routing Protocol against Routing Disruptions in MANETs**
Hung-Min Sun, Chiung-Hsun Chen, Chih-Wen Yeh, Yao-Hsin Chen
- **Higher Order eTCR Hash Functions**
Deukjo Hong, Dong-Chan Kim, Woo-Hwan Kim, Jongsung Kim
- **Proactive Recovery Approach for Intrusion Tolerance With Dynamic Configuration of Physical And Virtual Replicas**
Feng Zhao, Min Li, Hai Jin, Deqing Zou, Weizhong Qiang, Qin Zhang

16:30 - 18:30 [Session 2-H: WTA 2011](#)

(Room: 303-A)

(Chair: Min Choi)

- **A Parameterized and Prioritized Privacy-aware Pub-sub System for Smart Sensor-Based Application**
Yuan Tian, Biao Song, Eui Nam Huh
- **Energy Efficient Encoder Design of Distributed Video Coding for Wireless Video Sensor Network**
Li Li, Krishna Rao Vijayanagar, Joohee Kim
- **Statistical Characterization of Service Time in Saturated IEEE 802.11e Networks**
Eui-Jik Kim, Sungkwan Youm, Hyunhee Park, Taeshik Shon, Chul-Hee Kang
- **Simple Security Protocols based on EPC Global Generation 2**
Jaek Cho, Taeshik Shon, Ken Choi, Jungtaek Seo, Jongsub Moon

16:30 - 18:30 [Session 2-K: HPGC 2011](#)

(Room: 400)

(Chair: Shang guang Wang)

- **An Integrated Approach towards Aggressive State-tracking Migration for Maximizing Performance Benefit in Distributed Computing**
Yong-Hyuk Moon, Chan-Hyun Youn
- **The Performance Implications of the Non-uniform VCPU-PCPU Mapping in Virtualization Environment**
Alin Zhang, Hai Jin, Song Wu, Xuanhua Shi, Wei Gao
- **A Dynamic Approach to Tolerate Soft Errors**
Lei Xiong, Qingping Tan
- **HSK: a Hierarchical Parallel Simulation Kernel for Multicore Platform**
Tang Wenjie, Yiping Yao

16:30 - 18:30 [Session 2-L: WTA 2011](#)

(Room: 401-A)

(Chair: Seung-Ho Lim)

- **Novel Schmitt Trigger Based Hardened Latch Design For Nanoscale CMOS**
Haiqing Nan, Ken Choi
- **Multi stake holder Role based policy enforcement for Android**
Masoom Alam, Shahryar Khan, Baha Ali
- **Cost-Reduced High-Speed Architectures for Lattice Digital Filters based on Cut-set Localization**
Yu-Chi Tsao, Ken Choi
- **Security Manpower Scheduling for Smart Airports**
Sangwon Seo, Sanggyun Choi, Chulung Lee

16:30 - 18:30 [Session 2- M: AFMS 2011](#)

(Room: 401-B)

(Chair: SangHyun Seo)

- **Implementation and Performance Evaluation of a Media Decoder with Hardware Acceleration Support Targeting High Definition Streams in the SBTVD Ginga Middleware**
Juliano Goncalves, Tiago Trojahn, Julio Mattos, Luciano Agostini, Leomar Rosa Junior
- **CPU-Based Speed Acceleration Techniques for Shear Warp Volume Rendering**
Ki Young Choi, Sung Up Jo, Chang Sung Jeong
- **Description and Interaction of RESTful Services for Automatic Discovery and Execution**
Ruben Verborgh, Thomas Steiner, Davy Van Deursen, Rik Van de Walle, Joaquim Gabarro Valles, Ruben
- **Design of Social Learning Content Management System for Social Learning**
Kyung-Rog Kim, Jung-Won Lee, Nammee Moon
- **Using Augmented Reality for Students Health - Case of Combining Educational Learning with Standard Fitness**
Kuei-Fang Hsiao, Habib F. Rashvand

19:00 - 20:30 **Welcoming Reception Party**

(Room: OCEAN VIEW – 5F)

December 13, 2011 (Tuesday)

09:20 - 12:00 [Session 3-E: ACSA 2011](#)

(Room: 301-A)

(Chair: Zhiwei Wang)

- **Escrowable Identity-based Authenticated Key Agreement Protocol with Strong Security**
LIANG NI, GONGLIANG CHEN, JIANHUA LI
- **Security Evaluation of Double-Block-Length Hash Modes with Preimage Attacks on PGV Schemes**
Dukjae Moon, Deukjo Hong, Bonwook Koo, Seokhie Hong
- **Security Evaluation of MISTY Structure with SPN Round Function** *Seongsoo Cho, Ruilin Li, Chao Li, Jinshu Su, Bing Sun*
- **Differential Power Analysis of Stream Ciphers with LFSRs**
Bo Qu, Dawu Gu, Zheng Guo, Junrong Liu
- **Reference-Based Importance Assessment Model of Identity Information**
Zombo Fu, Yuan Cao, Jianxin Wang, Lin Yang

09:20 - 12:00 [Session 3-F: ACSA 2011](#)

(Room: 301-B)

(Chair: Fanbao Liu)

- **Protecting the Sink Location Privacy in Wireless Sensor Networks**
Lin Yao, Lin Kang, PengFei Shang, Lei Wang, Jian Wang
- **Detecting SYN Flooding Attacks based on Traffic Prediction**
Shanguang Wang, Qibo Sun, Hua Zou, Fangchun Yang
- **Reliability and security of arbiter based PUF Circuits**
Seongsoo Cho, BhanuShrestha, Zaur Tanriguyev, Berna Ors, Gokay Saldamli
- **On the security and improvement of a two-factor user authentication scheme in wireless sensor networks**
DA-ZHI SUN, JIAN-XIN LI, GUANG-QUAN XU
- **Adaptive Optimal Global Resource Scheduling for a Cloud-based Virtualized Resource Pool**
Lingli Deng

09:20 - 12:00 [Session 3-G: ACSA 2011](#)

(Room: 302)

(Chair: Seung-Ho Lim)

- **Removing Escrow from Ciphertext Policy Attribute-Based Encryption**
Junbeom Hur, Dongyoung Koo, Seong Oun Hwang, Kyungtae Kang
- **A Novel User Authentication and Key Agreement Scheme with Smart Cards over Insecure Networks**
Chun-Ta Li, Cheng-Chi Lee
- **Certificateless Signatures with Message Recovery**
Raylin Tso

- **Collision Attacks on AES-192/256, Crypton-192/256, mCrypton-96/128 and Anubis**
Jinkeon Kang, Kitae Jeong, Jaechul Sung, Seokhie Hong, Jongsung Kim
- **A Specification based Intrusion Detection Scheme for Wireless Sensor Networks**
Ashfaq Farooqi, Wang Jin, Farrukh Khan, Sungyoung Lee Abdel Obaid

09:20 - 12:00 [Session 3-H: uHealthcare 2011](#)

(Room: 303-A)

(Chair: Soonseok Kim)

- **A Method of Identifying Chronic Stress by EEG**
Dangping Fan, Bin Hu, Fang Zheng, Li Liu, Wen Zhao1, Xuebin Chen, Yongxia Yang, Qingcui Cai
- **Efficient Techniques on Retrieving DNA Information for Active U-healthcare**
Young-Ho Park
- **Design of Sleeping Situation Sensing System in ubiquitous environments**
Chang Won Jeong, Su Chong Joo, Young Sik Jeong
- **Encoder Design for Healthcare Signals**
Soon Seok Kim, Yong Hee Lee, Cheon Ho Choi, Jong Hyuk Park
- **Semantic and Structural Similarities between XML Schemas for Integration of Ubiquitous Healthcare Data**
Pham Thi Thu Thuy, Young-Koo Lee, Sungyoung Lee

09:20 - 12:00 [Session 3-J: SSMIT 2011](#)

(Room: 303-B)

(Chair: Hyukjun Kwon)

- **Implementation of a Content-based Control Method for Securing HTTPs Web Mails Using Proxy Server**
Young Ran Hong, Dongsoo Kim
- **Image Contrast Enhancement for Intelligent Surveillance Systems Using Multi-local Histogram Transformation**
Hwan-Joo Kwak, Gwi-Tae Park
- **Turnover Paths and Turnover Causes among Information Security**
Tae-Sung Kim, Hye-Won Yoo
- **Sensor-based Monitoring System applying Expert System for Performance Improvement**
Hee-suk Seo, Seung-hwan Ju, Seung-jae Lee
- **A Study on One-Time Password Authentication Scheme in Mobile Environment**
HongGi Kim, ImYeong Lee

09:20 - 12:00 [Session 3-K: HPGC 2011](#)

(Room: 400)

(Chair: Qiu Tie)

- **Exploiting SIMD Parallelism on Dynamically Partitioned Parallel Network Coding for P2P Systems**
Deokho Kim, Karam Park, Won Woo Ro
- **Cloud Model for Service Selection in Cloud Computing**
Shangguang Wang, zibin Zheng, Qibo Sun, Hua Zou, Fangchun Yang
- **Evaluation of Messaging Middleware for High Performance Cloud Computing**

Roberto R. Exposito, Guillermo L. Taboada, Juan Tourino

- **Particle Swarm Optimization with Skyline Operator for Fast Cloud-based Web Service Composition**
Shangguang Wang, Qibo Sun, Hua Zou, Fangchun Yang
- **A Cost-Effective Methodology Applied to Videoconference Services on Hybrid Clouds**
Javier Cervino, Pedro Rodriguez, Irena Trajkovska, Fernando Escribano, Joaquin Salvachua

09:20 - 12:00 [Session 3-L: WTA 2011](#)

(Room: 401-A)

(Chair: Hyunhee Park)

- **Power Grid Network Simulator: Network Simulator for Smart Grid Power Networks**
Seung-Ho Yang, Byung-Kwan You, Hyo-Sik Yang, Yong-Ho Ahn, Hyuk-Soo Jang, Byong-Hee Sohn
- **A Dynamic Control Middleware for Cyber Physical System through an IPv6-based Global Network**
Sang Oh Park, Tae Hoon Do, Young-Sik Jeong, Sung Jo Kim
- **Multi-hop GTS Allocation Mechanism in the IEEE 802.15.4 Network**
Seokmin Lee, Woongchul Choi
- **An Energy-Efficient Data Gathering Scheme in Wireless Sensor Networks**
Chen-Che Huang, Lo-Yao Yeh, Kuan-Han Chen, Jiun-Long Huang
- **Dynamic FEC Scheme for Multicasting Real-Time Multimedia Traffic in WLANs**
Sunmyeng Kim, Young-Jong Cho

09:20 - 12:00 [Session 3- M: AFMS 2011](#)

(Room: 401-B)

(Chair: SangHyun Seo)

- **Painting technique with multi-level depiction from image saliency**
Hochang Lee, Seungtaek Ryoo, Kyunghyun Yoon
- **A hierarchical dense deformable model for 3D face reconstruction from skull**
Yongli Hu, Fuqing Duan, Baocai Yin, Mingquan Zhou, Yanfeng Sun, Zhongke Wu, Guohua Geng
- **Integrated pricing and capacity decision for a telecommunication service provider**
Ki-sung Hong, Chulung Lee
- **Multi-Agent Based Middleware for Protecting Privacy in IPTV Content Recommender Services**
Ahmed M. Elmisery and Dmitri Botvich
- **Skin Analysis Scheme using Skin Age Classification Model**
Young-Hwan Choi, Yoon-Sik Tak, Seungmin Rho, Eenjun Hwang

12:00 - 13:30 **Lunch (Room: DELIZIA – 3F)**



13:30 - 15:30 [Session 4-E: ACSA 2011](#)

(Room: 301-A)

(Chair: Ching-Nung Yang)

- **Compact and Unified Hardware Architecture for SHA-1 and SHA-256 of Trusted Mobile Computing**
Mooseop Kim, Deok Gyu Lee, Jaecheol Ryou
- **Polynomial-based Key Management for Secure Intra-group and Inter-group Communication**
Yanji Piao, JongUK Kim, Usman Tariq, Manpyo Hong
- **A novel user authentication scheme with anonymity for wireless communications**
Niu Jianwei, Li Xiong
- **Go Anywhere: User-Verifiable Authentication over Distance-Free Channel for Mobile Devices**
Sukin Kang, Jonguk Kim, Manpyo Hong

13:30 - 15:30 [Session 4-F: ACSA 2011](#)

(Room: 301-B)

(Chair: Lin Yao)

- **GISL: A Generalized Identity Specification Language Based on XML Schema**
Yuan Cao, Lin Yang, Zongbo Fu, Bo Yu, Xiaoqing Xu
- **Analyzing and Comparing the AES Architectures for their Power Consumption**
Ahmed Dogan, Berna Ors, Gokay Saldamli
- **Fast Password Recovery Attack: Application to APOP**
Fanbao Liu, Yi Liu, Tao Xie, Yumeng Feng, Yuan Cao
- **Adaptively Secure Anonymous Identity-based Broadcast Encryption in the Standard Model**
Leyou Zhang, Qing Wu, Yupu Hu

13:30 - 15:30 [Session 4-G: ACSA 2011](#)

(Room: 302)

(Chair: Young-Gab Kim)

- **Fault Attacks on CBC-MAC and its Variants based on AES-128**
Kitae Jeong, Jaechul Sung, Seokhie Hong
- **Fully Secure Expressive Ciphertext-Policy Attribute-Based Encryption without Random Oracles**
Yanli Ren, Shuozhong Wang, Xinpeng Zhang
- **Quadratic Residue Based Client Puzzle Distributed by Beacon Frame in DoS-Resistant Wireless Access Authentication**
Qingkuan Dong, Lin Li, Xiaofeng Chen
- **Partial Reconstruction of Previous Gmail Session by Live Digital Evidences Acquisition through Volatile Data Operation**
Hai-Cheng Chu, Szu-Wei Yang, Jong Hyuk Park

13:30 - 15:30 [Session 4-H: VCT 2011](#)

(Room: 303-A)

(Chair: Dong Yong Kwak)

- **Dynamic Toll Pricing Model for an Intelligent Transportation System with Individual High Occupancy Toll Lanes**
Ki-sung Hong, Kyungchul Lee, Chulung Lee
- **An Automatic Valet Parking Platform for Neighborhood EV**
JeongDan Choi, KyoungWook Min, KyungWhan Ahn, KyungBok Sung
- **Experimental Results For An Indoor Localization Method Based On Angle-Delay Signatures**
Dong Kyoo Kim, Yang Sun Lee
- **A Multi-hop Relay Broadcast MAC Protocol for Vehicular Networks**
DaeHun Yoo, WoongChul Choi

13:30 - 15:30 [Session 4-J: uHealthcare 2011](#)

(Room: 303-B)

(Chair: Hyukjun Kwon)

- **Adoption of Healthcare Information System and Cost in Hospital**
Kwangsoo Lee, Thomas T.H. Wan, Hyukjun Kwon
- **Generating Knowledge for the Identification of Device Failure Causes and the Prediction of the Time-to-Failure in U-Healthcare Environments**
Dong Woo Ryu, Kyung Jin Kang, Sang Oh Park
- **Light Therapy by Red-Green-Blue LEDs improves Healing in an Excision Model in Sprague Dawley Rats**
Minwoo Cheon, Yangsun Lee, Seonghwan Kim

13:30 - 15:30 [Session 4-K: HPGC 2011](#)

(Room: 400)

(Chair: Pham Thi Thu Thuy)

- **Smart Space Model for Facilitating Dynamic Service Binding**
Changgyu Bak, Euna Choi, Jung-Won Lee and Nammee Moon
- **Functionality Evaluation of Ubiquitous Service Ontology for Dynamic Service Composition**
Meeyeon Lee, Jung-Won Lee, Nammee Moon and Seung Soo Park
- **OO Divide and Conquer Pattern suitable for Parallel, Grid and Cloud computing**
Manouchehr ZadahmadJafarlou, Bahman arasteh, Parisa Yousefzadehfard
- **A Dynamic and Reliable Failure Detection and Failure Recovery Services in the Grid Systems**
Bahman arasteh, Manouchehr ZadahmadJafarlou, Mohammad Javad Hosseini

13:30 - 15:30 [Session 4-L: WTA 2011](#)

(Room: 401-A)

(Chair: Chulung Lee)

- **Quality of Protection for Multimedia Service in Wireless Mesh Networks**
Sunhee Lim
- **A Survey: On the Simulation of Networked Sensor Systems**
Xianghua Xu, Jong Hyuk Park, Wei Dong, Jian Wan, Yi Gao, Naixue Xiong
- **The dispatching rule for container logistics system with trading carbon credit adapted situation and analysis of the impact**
Joungmin Park, Jaehwan Lee, Seungyoon Ko, Chulung Lee
- **MSRP: A Light Weight Cross-Layer Routing Protocol for IPv6 Wireless Sensor Networks**
Deyun Gao, Kai-Di Chang, Jiann-Liang Chen, Han-Chieh Chao
- **Mitigated Exclusive Occupation based on Misbehavior Control Scheme in Wireless Networks**
Hyunhee Park, Eui-Jik Kim, Taeshik Shon, Chul-Hee Kang

13:30 - 15:30 [Session 4- M: AFMS 2011](#)

(Room: 401-B)

(Chair: Jongmyon Kim)

- **Image Recoloring Using Template Mapping**
SangHyun Seo, YoungSub Park, Victor Ostromoukhov
- **Semantic Media Decision Taking using N3Logic**
Wim Van Lancker, Davy Van Deursen, Ruben Verborgh, Rik Van de Walle
- **Iterative Random Search: A New Local Minima Resistant Algorithm for Motion Estimation in High Definition Videos**
Marcelo Porto, Cassio Cristani, Pargles Dall'Oglio, Mateus Grellert, Julio Mattos, Sergio Bampi, Luciano Agostini
- **An Enhanced Motion Estimation Approach Using a Genetic Trail Bounded Approximation for H.264/AVC Codecs**
Mohammad Haque, Jongmyon Kim

15:30 - 15:50 **Coffee Break**

15:50 - 17:00 [Invited Talk 3](#)

(Room: Halla Hall A)

(Chair: Hangbae Chang)

**WiMAX? A Case Study on Minimizing Construction Cost
for IEEE 802.16j Multi-hop Relay Networks**

Prof. Han-Chieh Chao

Computer & IT Center, National Ilan University, Taiwan, ROC

17:00 - 17:20 Coffee Break

17:20 - 18:30 **Invited Talk 4**
(Room: Halla Hall A)
(Chair: Seungmin Rho)

The challenges and practices on Cloud Security

Prof. Hai Jin

Huazhong University of Science and Technology (HUST), China

19:00 - 21:30 Conference Banquet
(Room: CRYSTAL BALLROOM, Banquet Building, Lotte Hotel Jeju)



December 14, 2011 (Wednesday)

09:30 - 12:30 [Session 5-E: ACSA 2011](#)

(Room: 301-A)

(Chair: Min Choi)

- **Trust Levels in Peer-to-Peer (P2P) Vehicular Network**
Irshad Sumra, Halabi Bin Hasbullah, Jamalul-lail Manan, Abdullah S Alghamdi, Iftikhar Ahmad
- **Study in Protocol Redirection for Database Leakage Prevention**
Hangbae Chang
- **Towards an Accurate Evaluation of Quality of Cloud Service in Service-oriented Cloud Computing**
Shangguang Wang, Qibo Sun, Hua Zou, Fangchun Yang
- **New Convertible Ring Signatures Based on RSA**
Kaibin Huang, Raylin Tso
- **LSH Based Adaptive Mean Shift Clustering Algorithm**
Yanbin Cui, Kui Cao, Fan Zhang
- **Power efficient RSA realizations over FPGAs**
Dilek Bayhan, Berna Ors, Gokay Saldamli

09:30 - 12:30 [Session 5-F: ACSA 2011](#)

(Room: 301-B)

(Chair: Deok Gyu Lee)

- **More Secure Authenticated Group Key Agreement in a Mobile Environment**
Chun-Ta Li, Cheng-Chi Lee
- **Construction of a Secure Two-Factor User Authentication System using Fingerprint Information and Password**
Woong Go, You-jong Jang, Jin Kwak
- **Self-organizing Life Cycle Management of Mobile Ad hoc Networks**
Candido Caballero-Gil, Pino Caballero-Gil, Jezabel Molina-Gil
- **Research on the Model of the Survivable Storage**
Xiao-yuan YANG, Jing-jing WANG, Xiao-feng CHEN
- **Live Digital Forensic Technique for Incident Response in Windows Environments**
Keungi Lee, Changhoon Lee, Sangjin Lee
- **A Quantitative Approach to Estimate the Security Risk of a Website using the Whitelist Database**
Young-Gab Kim, Sungdeok Cha

09:30 - 12:30 [Session 5-G: ACSA 2011](#)

(Room: 302)

(Chair: Dukjae Moon)

- **An Architecture for Secure SCADA system Based on IF-MAP Scheme**
Deng Chuan, Yang lin, Ma Linru, Yuan Cao
- **Privacy-enhanced social network service (SNS)**
Hanjae Jeong JEONG, Changbin Lee, Jin Kwak, Dongho Won, Changyoung Kwon, Seungjoo Kim

- **A Methodology on password based user authentication on multi-touch environment**
Seung-hwan Ju, Hee-suk Seo, Seung-jae Lee
- **New Improved Impossible Differential Attack on Reduce-Round AES-128**
Ya Liu, Dawu Gu, Zhiqiang Liu, Weihao Kong, Wei Li
- **On-line/Off-line Blind Signature**
Chun-I Fan, Chien-Nan Wu, Wei-Kuei Chen

09:30 - 12:30 [Session 5-H: VCT 2011](#)

(Room: 303-A)

(Chair: Dong Kyoo Kim)

- **A Scalable Privacy-preserving Authentication Protocol for Secure Vehicular Communications**
Zeen Kim, Jangseong Kim, Doyoung Chung, Kwangjo Kim, Taeshik Shon
- **Localized Mobility Management Scheme for Convergence of Heterogeneous Wireless Networks**
Il Kwon Cho, Sang Yong Ha, Tae Wan Kim, Koji OKAMURA
- **Development of Advanced Vehicular Communication Systems**
Woong Cho, Sangwoo Lee, Hyun seo Oh
- **A Modeling and Simulation of Effective QoS Algorithm considered the User, Service and Earth Terminal in the MF-TDMA Satellite Network**
Jun Heo, Yong-Hoon Choi, Hyo-Hyun Choi
- **Vehicle Positioning Technology using Infra-based Laser Scanner Sensors for Autonomous Driving Service**
Kyoung Wook Min, Jeong Dan Choi
- **Location Estimation Using Space-Time Signal Processing in RFID Wireless Sensor Networks**
Chang-Heon Oh

09:30 - 12:30 [Session 5-J: SSMIT 2011](#)

(Room: 303-B)

(Chair: Dongsoo Kim)

- **An EPC Gen2 Compliant Authentication Scheme Based on a New Pseudorandom Number Generator**
PINO CABALLERO-GIL, CANDIDO CABALLERO-GIL, JEZABEL MOLINA-GIL
- **Provably Secure Two-party Password-based Key Agreement Protocol**
Huihua Zhou, Tianjiang Wang, Minghui Zheng
- **Forensic Analysis of Satellite Automotive Navigation System: A Case Study of Korea**
Kyung-Soo Lim, Changhoon Lee, Jong Hyuk Park, Sangjin Lee
- **Design of Information Security Reference Model for Small and Medium Sized IT Service Provider**
Hangbae Chang, Jonggu Kang, Yanghoon Kim, Jaehwan Lim, Youngsub Na
- **A Robust Audio Aggregation Watermark Based on Vector Quantization**
Juan Li, Rangding Wang, Jie Zhu

09:30 - 12:30 [Session 5-K: AAISS 2011](#)

(Room: 400)

(Chair: Jongmyon Kim)

- **Local Feature-based Multi-Object Recognition Scheme for Surveillance**
Daehoon Kim, Seungmin Rho, Eenjun Hwang
- **Fire Detection in Video Sequences using Segmentation and Classification Algorithm**
Tung Troung, Jongmyon Kim
- **A Service Scenario Generation Scheme based on Association Rule Mining for Elderly Surveillance System on Smart Home Environment**
Kyung Jin Kang, Sang Oh Park, Borey Ka, Sung Jo Kim
- **Adaptive Frame Synchronization for Surveillance System across a Heterogeneous Network**
Jenq-Shiou Leu
- **Motion Detection with Pyramid Structure of Background Model for Intelligent Surveillance Systems**
Shih-Chia Huang
- **Multipoint-to-Point Communications for SHE Surveillance with QoS and QoE Management**
Ray-I Chang, Te-Chih Wang, Chia-Hui Wang, Shiguo Lian
- **Statistical Skin Color Detection Method without Color Transformation for Real-Time Surveillance Systems**
Yen-Hsiang Chen, Kai-Ti Hu, Shanq-Jang Ruan

09:30 - 12:30 [Session 5-L: WTA 2011](#)

(Room: 401-A)

(Chair: Jaeik Cho)

- **A Novel Clustering Algorithm in MANETs using Analytical Hierarchy Process (AHP) Mathematical Model**
Weijie Liu, Wooju Kim
- **Adaptive Node Discovery Scheduling in Complex Cyber-Physical System**
SooHyung Lee, JaeHyuk Kim, HaeYoung Lee, WonTae Kim, JaeCheol Ryou
- **A Study on Privacy Enhancement of Smart-Phone Based on Malicious Applications Analysis**
Seil Kim, Jae Ik Cho, Hee Won Myeong, Dong Hoon Lee
- **A Decentralized Algorithm for Nearest Surrounding Searching in Mobile Computing Environment**
Jaehwa Chung
- **AQUA-GLOMO: A Simulator with Acoustic Model for Underwater Networks**
Sanjay Dhurandher, Mohammad Obaidat, Megha Gupta

09:30 - 12:30 [Session 5- M: AFMS 2011](#)

(Room: 401-B)

(Chair: Sang-Soo Yeo)

- **Extraction of Enhanced Evoked Potentials using Wavelet Filtering**
Yong Hee Lee, Soon Seok Kim, Sea Il Park, Jong Hyuk Park
- **Intelligent noise detection and filtering using Neuro-Fuzzy System**
Sohail Masood, Ayyaz Hussain, Arfan Jaffar, Tae-Sun Choi

- **Enriching User Search Experience by Mining Social Streams with Associative Ripples**
Xiaokang Zhou, Neil Y. Yen, Qun Jin
- **A study on stackable mosaic generation for mobile devices**
Dongwann Kang, Sang-Hyun Seo, Seung-Taek Ryoo, Kyung-Hyun Yoon

