

PROGRAM SCHEDULE

December 9, 2010 (Thursday)						
09:00 - 09:30	Registration					
09:30 - 12:00	Session 1-A (ACSA-10) (Chair: R.Padmavathy) (Room: 201)	Session 1-B (ACSA-10) (Chair: Kyunuk Han) (Room: 202)	Session 1-C (ACSA-10) (Chair: Cheonshik Kim) (Room: 203)	Session 1-D (AFMS-10) (Chair: Hangbae Chang) (Room: 204)	Session 1-E (U-healthcare-10) (Chair: Soon Seok Kim) (Room: 206)	Session 1-F (WTA-10) (Chair: Guowei Wu) (Room: 207)
12:00 - 13:30	Lunch					
13:30 - 14:50	<p>Opening Remark by Prof. Young-Sik Jeong (ACSA 2010, WTA 2010, Smartphone 2010, AFMS 2010, Uhealthcare 2010, BHIT 2010)</p> <p>Invited Speaking 1, (Chair: Young-Sik Jeong)</p> <p>Title : Challenges in Underwater Sensor Networks and the 3-dimensional Localization Issue Using Mobile Beacons</p> <p>by Dr. Kiseon Kim, Professor, Director, ERC-UFON, GIST, Korea (Room: 208)</p>					
14:50 - 15:10	Coffee Break					
15:10 - 17:40	Session 2-A (ACSA-10) (Chair: Jongsung Kim) (Room: 201)	Session 2-B (ACSA-10) (Chair: Kiwon Yeom) (Room: 202)	Session 2-C (Smartphone-10) (Chair: Kyunuk Han) (Room: 203)	Session 2-D (AFMS-10) (Chair: Jongan Park) (Room: 204)	Session 2-E (BHIT-10) (Chair: Jaewoo Kang) (Room: 206)	Session 2-F (WTA-10) (Chair: Imad Jawhar) (Room: 207)
18:00 - 20:00	Conference Reception (4F Convention Hall, Kimdajung Convention Center)					

December 10, 2010 (Friday)						
09:00 - 09:30	Registration					
09:30 - 12:00	Session 3-A (ACSA-10) (Chair: Leyou Zhang) (Room: 201)	Session 3-B (ACSA-10) (Chair: Kok-Seng Wong) (Room: 202)	Session 3-C (ACSA-10) (Chair: Taeshik Shon) (Room: 203)	Session 3-D (AFMS-10) (Chair: Hyukjun Kwon) (Room: 204)	Session 3-E (U-healthcare-10) (Chair: Ching- Hsien Hsu) (Room: 206)	Session 3-F (WTA-10) (Chair: Nishat Ahmad) (Room: 207)
12:00 - 13:30	Lunch					
13:30 - 14:40	Invited Speaking 2, (Chair: Ching-Hsien Hsu) Title : Challenges in U-Care and U-Health Smart Homes for Elderly: Convergence of Technologies as an Effective Approach by Dr. Nazim Agoulmine , Full Professor, Head of Software for Networks and Multimedia Systems Team (LRSM), University of Evry, France (Room: 208)					
14:40 - 14:50	Break					
14:50 - 16:00	Invited Speaking 3, (Chair: Leonard Barolli) Title : The Psychology of Convergence? New Environments, New Meanings by Dr. S. Shyam Sundar , Distinguished Professor, Co-Director, Media Effects Research Laboratory, College of Communications, Pennsylvania State University, USA (Room: 208)					
16:00 - 16:20	Coffee Break					
16:20 - 18:00	Session 4-A (ACSA-10) (Chair: Wansuk Yi) (Room: 201)	Session 4-B (ACSA-10) (Chair: SangHyun Seo) (Room: 202)	Session 4-C (Smartphone-10) (Chair: Jongsung Kim) (Room: 203)	Session 4-D (AFMS-10) (Chair: Hongjoo Lee) (Room: 204)	Session 4-E (WTA-10) (Chair: Zeeshan Shafi Khan) (Room: 206)	Session 4-F (WTA-10) (Chair: Dongwoo Lee) (Room: 207)
18:30 - 21:00	Banquet (Holiday Inn Hotel)					



December 11, 2010 (Saturday)						
09:00 - 09:30	Registration					
09:30 - 12:00	Session 5-A (ACSA-10) (Chair: Hyoung Joong Kim) (Room: 201)	Session 5-B (ACSA-10) (Chair: Hyung Jong Kim) (Room: 202)	Session 5-C (Smartphone-10) (Chair: Taeshik Shon) (Room: 203)	Session 5-D (ACSA-10) (Chair: Lin Yao) (Room: 204)	Session 5-E (WCC-10) (Chair: Changhoon Lee) (Room: 206)	Session 5-F (WTA-10) (Chair: Jongan Park) (Room: 207)
Note	<p>1. A paper presentation should be made by one of authors of the paper, during a 25 minute time slot (20 minutes for the presentation itself and 5 minutes for Q/A).</p> <p>2. All speakers of each session should meet the session chair at its room 10 minutes before the session.</p> <p>3. 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.</p> <p>4. If you have any query, please feel free to contact the WCC 2010 (wcc@ftrai.org).</p>					



DETAILED SCHEDULE FOR WCC 2010

December 9, 2010 (Thursday)

09:00 - 09:30 Registration

09:30 - 12:00 [Session 1-A: ACSA 2010](#)

(Room: 201)

(Chair: R.Padmavathy)

- **Security Analysis of an Ultra-lightweight RFID Authentication Protocol--SLMAP**
Cihan Unsal, Emin Anarim, Imran Erguler, Gokay Saldamli
- **Fine-Grained User Access Control in Ciphertext-Policy Attribute-Based Encryption**
Junbeom Hur, Chanil Park, Seong Oun Hwang
- **Security Analysis and Enhancement for Three-party Authenticated Key Exchange Protocol**
Jianjie Zhao, Dawu Gu, Minling Zhu, Lei Zhang
- **Privacy Preserving Frequent Itemsets Mining via Secure Collaborative Framework**
Kok Seng Wong, Myung Ho Kim
- **Cloud-DLS: Dynamic Trusted Scheduling for Cloud Computing Based on Bayesian Cognitive Method**
Wei Wang, Guosun Zeng
- **Threat Scenario-Based Security Risk Analysis using the Use Case Modeling in Information Systems**
Young-Gab Kim, Sungdeok Cha

09:30 - 12:00 [Session 1-B: ACSA 2010](#)

(Room: 202)

(Chair: Kyusuk Han)

- **A Study on Windows Malicious Code Classification System**
Ju Seung hwan, Seo Hee suk
- **Integrating Intrusion Detection and Access Control Systems: A survey**
Waleed Halboob, Khaled Alghathbar, Ali Mamat, Ramlan Mahmood
- **The research on the investigation method of digital evidences for the VMware Workstation**
Sungsu Lim, Byeongyeong Yoo, Jungheum Park, KeunDuck Byun, Sangjin Lee



- **An Interaction Vulnerability Detection Model in Large Distributed System Based on Finite State Machine**
Jinjing Zhao, Gang Zhao, Yan Wen, Xiaohui Kuang
- **Visualization of Abnormal Behavior Detection using Parallel Coordinate and Correspondence Analysis**
Jaeik Cho, Hojoon Lee, Ken Choi, Jongsub Moon
- **OpenID Based Personal Information Management System**
Junghwan Song, HwanJin Lee, DongHoon Shin, Hyun-Chul Jung

09:30 - 12:00 [Session 1-C: ACSA 2010](#)**(Room: 203)****(Chair: Cheonshik Kim)**

- **The Effect and Strategy Research of the Secure E-Commerce by the Application of P2P**
Mingbiao Li, Jong Hyuk Park, Naixue Xiong, Zhonghua Li
- **A Fingerprint Verificaiton using Coarse-to-Fine Strategy**
Seung-Hoon Chae, Keun-Chang Kwak, Sung Bum Pan
- **Reversible Data Hiding for Halftone Images Using Histogram Modification**
Cheonshik Kim, YongSoo Choi, Hyoung-Joong Kim, Dongkyoo Shin, Dongil Shin, James C.N. Yang
- **Enhanced Secure Anonymous Authentication Scheme for Roaming Service in Global Mobility Networks**
Hyeran Mun, Chan Yeob Yeun, Kyusuk Han
- **A Scalable and Robust Hierarchical Key Establishment Scheme for Mission-Critical Applications over Sensor Networks**
Jangseong Kim

09:30 - 12:00 [Session 1-D: AFMS 2010](#)**(Room: 204)****(Chair: Hangbae Chang)**

- **An intrinsic semantic framework for recognizing image objects**
Nishat Ahmad, Jongan Park
- **A Middleware for Projector-based Procedure-aware Tabletop Applications**
Kaori Fujinami, Nobuhiro Inagawa, Kosuke Nishijo, Akifumi Soka
- **Evaluating Two Implementations of the Component Responsible for Decoding Video and Audio in the Brazilian Digital TV Middleware**
Tiago H. Trojahn, Julio C. B. Mattos, Luciano V. Agostini, Juliano L. Goncalves, Leomar S. Da Rosa Junior
- **A Study on Block-based Recovery of Damaged Digital Forensic Evidence Image**
Eun-Gyeom Jang, Byoung-Soo Koh



- **Performance of TZCD-MBOK Watermarking Scheme in T-DMB Systems**
Jung Nam Bae, Jin Young Kim, Geon Kim, Yong Tae Lee, Jae Sang Cha

09:30 - 12:00 [Session 1-E: U-Healthcare 2010](#)

(Room: 206)

(Chair: Soon Seok Kim)

- **Study on Security Requirements and Health-care Housing Application for u-health Device**
Soon Seok Kim, Deok Seok Seo , Yong Hee Lee , Jong Hyuk Park
- **Design an Efficient Routing Strategy for VANETs in a City Environment**
Jian-Ming Chang, Yi-Hsuan Lin, Hui-Hung Chien, Han-Chieh Chao, Jiann-Liang Chen
- **Medicare-Grid: A Grid Based E-Health System**
Po-Chi Shih, Yeh-Ching Chung, Kuan-Ching Li, Chao-Tung Yang, Ching-Hsien Hsu, Fang-Rong Hsu, Don-Lin Yang, Chia-Hsien Wen, Chuang-Chien Chiu
- **Self-Decision Activity in Hierarchical Wireless Sensor Networks**
Meng-Yen Hsieh, Der-Jiunn Deng, Kuan-Ching Li, Whe-Dar Lin

09:30 - 12:00 [Session 1-F: WTA 2010](#)

(Room: 207)

(Chair: Guowei Wu)

- **Reliable Routing for Low-Power Smart Space Communications**
Khaled Daabaj, Mike Dixon, Terry Koziniec
- **Real-Time Low Bitrate Multimedia Communication For Smart Spaces and Wireless Sensor Networks**
Krishna Rao Vijayanagar, Joohee Kim
- **Random Pair-wise Key Management for Heterogeneous Sensor Networks**
Chun-Guang Ma, Jiu-Ru Wang, Xiao-Rui Zhong, Hua Zhang
- **Specified Nearest Neighbor Query in Smart Spaces**
Jae-Hwa Chung, Kyoung-Ho Jung, Sang-Won Kang, Joon-Min Gil, Soon-Young Jung
- **Collaborative Routing and Camera Selection for Visual Wireless Sensor Networks**
S. Mohsen Amiri, Victor C.M. Leung, Panos Nasiopoulos
- **ITFBS: Adaptive Intrusion-tolerant Scheme for Body Sensor Networks in Smart Space Applications**
Guowei Wu, Jiankang Ren, Lin Yao, Zichuan Xu

12:00 - 13:30 **Lunch**



13:30 - 13:40 **Opening Remark and Invited Talk**
(Room: 208)

Prof. Young-Sik Jeong, Wonkwang University, Korea

13:40 - 14:50 **Invited Speaking 1 : WCC 2010**
(Room: 208)
(Chair: Young-Sik Jeong)

Challenges in Underwater Sensor Networks and the 3-dimensional Localization Issue Using Mobile Beacons

Dr. Kiseon Kim, ERC-UFON, GIST, Korea

14:50 - 15:10 **Coffee Break**

15:10 - 17:40 **Session 2- A: ACSA 2010**
(Room: 201)
(Chair: Jongsung Kim)

- **Differential Fault Analysis on Block Cipher SEED**
Kitae Jeong, Yuseop Lee, Jaechul Sung, Seokhie Hong
- **Fault Detection and DFA Countermeasure for Montgomery Power Ladder in ECC**
Ihor Vasylytsov, Gokay Saldamli
- **Cryptanalysis of Grain**
Neda Rohani, Zainab Noferesti, Javad Mohajeri, Mohammad Reza Aref
- **Non-Linear Approximations in Differential-Multiple Linear Cryptanalysis**
Zhiqiang Liu, Dawu Gu, Ning Ding, Wei Li
- **Related Key Chosen IV Attack on Modified Version of SNOW2.0**
Lin Ding, Jie Guan
- **Integral Cryptanalysis of Reduced-Round MIBS Block Cipher**
Gaoli Wang

15:10 - 17:40 **Session 2-B: ACSA 2010**
(Room: 202)
(Chair: Kiwon Yeom)

- **Evaluating Trustworthiness of Prefix Announcements in Internet Routing**
Wenping Deng, Peidong Zhu, Xicheng Lu



- **Generic Construction of Identity-Based Strong Key-Insulated Signature**
Dehua Zhou, Kefei Chen
- **Towards Implicitly Thwarting Stealth Malware with a Feather-weight Hypervisor**
Yan Wen, Jinjing Zhao, Gang Zhao
- **Improved Hierarchical Identity-Based Parallel Key-Insulated Encryption**
Yanli Ren, Shuozhong Wang, Xinpeng Zhang
- **Diffusion-Confusion based Light-weight Security for Item-RFID Tag-Reader Communication**
Divyan M Konidala, Kwangjo Kim
- **Development to Protection Model from Large-Scale Information Leakage in Web Environments**
Kyong-jin Kim, Hyun-mi Jang, Seng-phil Hong

15:10 - 17:40 [Session 2-C: Smartphone 2010](#)

(Room: 203)

(Chair: Kyusuk Han)

- **Sketching up the world: In-situ authoring for mobile Augmented Reality**
Tobias Langlotz, Stefan Mooslechner, Stefanie Zollmann, Claus Degendorfer, Gerhard Reitmayr, Dieter Schmalstieg
- **An Efficient and Low Cost Windows Mobile BSN Monitoring System Based on TinyOS**
Orlando Pereira, Joao Caldeira, Lei Shu, Joel Rodrigues
- **Ensuring Anonymity for LBSs in Smartphone Environment**
Mohammed Alzaabi, Chan Yeob Yeun, Andrew Jones
- **Android Runtime Security Policy Enforcement Framework**
Hammad Banuri, Masoom Alam, Shahryar Khan, Jawad Manzoor, Bahar Ali, Yasar Khan, Mohsin Yaseen, Mir Nauman Tahir, Tamleek Ali, Xinwen Zhang

15:10 - 17:40 [Session 2-D: AFMS 2010](#)

(Room: 204)

(Chair: Jongan Park)

- **Tertiary hash tree: hash-based index structure for high-dimensional data**
Yoon-Sik Tak, Eejeun Hwang
- **Developing a strategic framework for the WiBro Service in the Global Market**
Jeongseon Seol, Hyunsik Seo, Soung Young Om, Bong Gyou Lee
- **Application of Semantic Web Technologies for Automatic Multimedia Annotation**
Ruben Verborgh, Davy Van Deursen, Erik Mannens, Rik Van de Walle
- **Recommender System Design using Movie Genre Similarity and Preferred Genres in SmartPhone**
Kim Kyung-Rog, Byeon Jae-Hee, Moon Nam-Mee



- **A Novel Secure RF4CE Communication for Efficient Multimedia Control in Smart Home Embedded Systems**
Taeshik Shon, Jangseong Kim, Daesik Ko

15:10 - 17:40 [Session 2-E: BHIT 2010](#)

(Room: 206)

(Chair: Jaewoo Kang)

- **LGTBase: LARGE-like GlcNAc-transferase Database**
Kuo-Yuan Hwa, Wan Man Lin, Chueh-Pai Li
- **Feature Extraction for Termite Tunneling Using Information Relevance and GA**
Eun-Kwan Kang, Dorj Ulzii-Orshikh, Malrey Lee, Thomas Gatton
- **SignatureClust: A Tool for Landmark Gene-guided Clustering**
Pankaj Chopra, Hanjun Shin, Sunwon Lee, Jaewoo Kang
- **Putative Xylosyltransferase Genes in Trichomonas vaginalis**
Kuo-Yuan Hwa, Boopathi Subramani
- **Effects of 12-Weeks Circuit Weight Training and Aerobic Exercise on Body Composition, Physical Fitness, and Pulse Wave Velocity in Obese Collegiate Women**
Hyun-Joo Kang, Doo-Soon Park, Duk-Ho Kang

15:10 - 17:40 [Session 2-F: WTA 2010](#)

(Room: 207)

(Chair: Imad Jawhar)

- **Implementation of SOPC Embedded System for Wireless Sensor Networks Control Center with uClinux Operating System**
Han-Chiang Chen
- **Smart Device Applying Self-adaptation Technologies for Smart Space**
Ingeol Chun, Jeongmin Park, Haeyoung Lee, Seungmin Park, Eunseok Lee
- **Implementation of the IEEE 802.15.4 Module with CFP in NS-2**
WoongChul Choi, SeokMin Lee
- **Storage-efficient Data Gathering in Wireless Sensors**
Sungsuk Kim, Sun Ok Yang
- **A Study of Context-Based Adaptive Service Model in Home Environments**
Su Chong Joo, Chang Won Jeong, Kane Kim
- **Medium Reservation based Sensor MAC protocol for Low Latency and High Energy Efficiency**
Pranesh Sthapit, Jae-Young Pyun

18:00 - 20:00 **Conference Reception (Convention Hall 4th floor)**



December 10, 2010 (Friday)

09:00 - 09:30 Registration

09:30 - 12:00 [Session 3-A: ACSA 2010](#)

(Room: 201)

(Chair: Leyou Zhang)

- **Task-based Behavior Detection of Illegal Codes**
Lansheng Han, Deqing Zou, Ming Liu, Wenjing Jia
- **Authenticated Public Key Broadcast Encryption Scheme Secure Against Insiders' Attack**
Chanil Park, Junbeom Hur, Seongoun Hwang, Hyunsoo Yoon
- **Modeling and Quantitatively Predicting Software Security Based on Stochastic Petri Nets**
Nianhua Yang, Huiqun Yu, Zhilin Qian, Hua Sun
- **A Scalable and Privacy-preserving Child-care & Safety Service in Ubiquitous Computing Environment**
Jangseong Kim, Taeshik Shon, Kwangjo Kim
- **Adaptively Secure Identity-based Broadcast Encryption with constant size private keys and ciphertexts from the Subgroups**
Leyou Zhang, Yupu Hu, Qing Wu
- **Designing User Profiling Prototype for Identification of Malicious Forums**
Maqsood Mahmud, Muhammad El Mogy, Muhammad Khurram Khan, Khaled Alghathbar

09:30 - 12:00 [Session 3-B: ACSA 2010](#)

(Room: 202)

(Chair: Kok-Seng Wong)

- **Lightweight Access Control for Resource Limited Clients on Valid XML Data Streams**
Dongchan An, Seog Park
- **Detecting Memory Leak Using Virtualization Technology**
Xiaolin Wang, Zhenlin Wang, Yi Liu, Yingwei Luo, Xiaoming Li
- **A more practical remote user authentication scheme using smart cards**
Li Xiong, Wang Wen-Dong, Niu Jian-Wei, Ma Jian
- **A Novel User Authentication and Privacy Preserving Scheme with Smart Cards for Wireless Communications**
Chun-Ta Li, Cheng-Chi Lee
- **On Weaknesses of the HDCP Authentication and Key Exchange Protocol and Its Repair**
Jianjie Zhao, Dawu Gu, Yali Li, Wei Cheng



- **Reliable Reputation Measure based on Feedback Ratings for E-business Application**
Shanguang Wang, Qibo Sun, Fangchun Yang

09:30 - 12:00 [Session 3-C: ACSA 2010](#)

(Room: 203)

(Chair: Taeshik Shon)

- **A Novel Method for SQL Injection Attack Detection Based on Removing SQL Query Attribute Values**
Inyong Lee, Soonki Jeong, Sangsoo Yeo, Jongsub Moon
- **Virus Detection Method based on Behavior Resource Tree**
Mengsong Zou, Lansheng Han, Qiwen Liu, Cai Fu, Shouhuai Xu
- **A Tool Implementation Applied by PF Architectural Pattern to Integrate the Open Source Software for the Static Analysis**
Woongchul Choi, Daemyeong Park, Daehun Yoo, Byung Joon Park
- **A New Multistage Approach to Detect Subtle DDoS Attacks**
Fei Wang, Hailong Wang, Xiaofeng Wang
- **Design and Implementation of Code Virtualization for Binary Code Protection**
Ji-Yeon Kim, Hyung-Jong Kim, Jae-Woo Park and Cheol-Won Lee
- **Handling Malicious Flooding Attacks through Enhancement of Packet Processing Technique in Mobile Ad Hoc Networks**
HyoJin Kim, Ramachandra Bhargav Chitti, JooSeok Song

09:30 - 12:00 [Session 3-D: AFMS 2010](#)

(Room: 204)

(Chair: Hyukjun Kwon)

- **Multimodal Concept Fusion using Semantic Closeness for Image Concept Disambiguation**
Ahmad Abu-Shareha, Rajeswari Mandava, Dhanesh Ramachandram, Latifur Khan
- **English Course E-learning System Based On Relative Item Difficulty Using Web Component Composition**
Hwa-Young Jeong, Bong-Hwa Hong, Bhanu Shrestha, Seongsoo Cho
- **Data Reorganization for Scalable Video Service with Embedded Mobile Devices**
Seungho Lim, Min Choi, Young-Sik Jeong
- **A Cultural Dimensions Model Based on Smart Phone Applications**
Oh Jung-Min, Moon Nam-Mee
- **A Multi-dimensional UI Design for Content Browser on Mobile IPTV**
Jaehee Byeon, Nam-Mee Moon
- **A Study on Business Strategy of Smart Device for Multimedia Contents**
Hongjoo Lee



09:30 - 12:00 [Session 3-E: U-Healthcare 2010](#)**(Room: 206)****(Chair: Ching-Hsien Hsu)**

- **ECG Dipole Source Localization in 3D Human Model**
Dang Thanh Trung, Naixue Xiong, Pham Thi Mai Bao, Nguyen The Loc
- **Error-resilient Transmission of Patient Video over Mobile Network**
D.H. Lee, Sun K. Yoo, Hee-Cheol Kang, Mihee Lee, Doo-Soon Park, Young-Sik Jeong
- **A Study on a Portable Health Monitoring System with Wristband using Photoplethysmograph and Skin Temperature**
Ji-Hyeoung Lee, Won-Joo Lee, Kyung-Ho Kim
- **TOL-PTEQ for In-sufficient Cyclic-prefix OFDM Transmissions**
Dong Kyoo Kim, Yang Sun Lee
- **A Software Architecture for Collaborative Visualization Environments**
Mario Ciampi, Taeshik Shon

09:30 - 12:00 [Session 3-F: WTA 2010](#)**(Room: 207)****(Chair: Nishat Ahmad)**

- **A Novel Scheme to Prevent MAC Layer Misbehavior in IEEE 802.11 Ad Hoc Networks**
Fei Shi, Jaejong Baek, Jooseok Song, Weijie Liu
- **Attack Containment in Mobile Ad hoc Networks Through Fair Distribution of Resources**
Zeeshan Shafi Khan, Farzana Azam, Khaled Alghathbar, Muhammad Sher, Muhammad Khurram Khan
- **Towards More Reliable and Secure Source Routing in Mobile Ad Hoc and Sensor Networks**
Imad Jawhar, Zouheir Trabelsi, Jameela Al-Jaroodi
- **An Enhanced Two-Factor User Authentication in Wireless Sensor Networks**
Jianjun Yuan, Zuowen Jiang
- **Ontology based Resource Usage Policy Matching in Computational Grid for Pervasive Computing Applications**
D. Surendran, G.Kousalya, R.A.Balachandar
- **Human Abnormality Detection for Smart Spaces using Motion Sequence Matching**
Yoon-Sik Tak, Eenjun Hwang

12:00 - 13:30 **Lunch**

13:30 - 14:40 **Invited Speaking 2: WCC 2010**

(Room: 208)

(Chair: Ching-Hsien Hsu)

Challenges in U-Care and U-Health Smart Homes for Elderly: Convergence of Technologies as an Effective Approach

Dr. Nazim Agoulmine, University of Evry, France

14:40 - 14:50 **Break**

14:50 - 16:00 **Invited Speaking 3: WCC 2010**

(Room: 208)

(Chair: Leonard Barolli)

The Psychology of Convergence? New Environments, New Meanings

Dr. S. Shyam Sundar, College of Communications, Pennsylvania State University, USA

16:00 - 16:20 **Coffee Break**

16:20 - 18:00 **Session 4-A: ACSA 2010**

(Room: 201)

(Chair: Wansuk Yi)

- **Convertible Ring Signatures with Gradual Revelation of Non-Signers**
Raylin Tso
- **Secure Concurrency Control Protocol with Timeliness Guarantees in Real-Time Database Systems**
Yingyuan Xiao, Kevin Lee
- **Securing Mobile Network Prefix Provisioning for NEMO based Vehicular Networks**
Jong-Hyouk Lee, Terence Chen, Thierry Ernst
- **Adaptive-capacity and Robust Natural Language Watermarking For Agglutinative Languages**
Mi-Young Kim, Randy Goebel



16:20 - 18:00 [Session 4-B: ACSA 2010](#)**(Room: 202)****(Chair: SangHyun Seo)**

- **Differential-Multidimensional Linear Cryptanalysis**
Zhiqiang Liu, Dawu Gu, Ning Ding, Wei Li
- **Guess and Determine Attack on Bivium**
Neda Rohani, Zainab Noferesti, Javad Mohajeri, Mohammad Reza Aref
- **Discrete Logarithm Problem using Index Calculus Method**
R Padmavathy, Chakravarthy Bhagvati
- **Related Key Chosen IV Attacks on Decimv2 and Decim-128**
Ding Lin, Guan Jie

16:20 - 18:00 [Session 4-C: Smartphone 2010](#)**(Room: 203)****(Chair: Jongsung Kim)**

- **Secure and Efficient Public Key Management In Next Generation Mobile Networks**
Kyusuk Han, Hyeran Mun, Chan Yeob Yeun
- **A Smartphone Watch for Mobile Surveillance Service**
Won-Ho Chung
- **Performance Analysis of Authentication and Key Distribution Scheme for Mobile Multi-hop Relay in IEEE 802.16j**
Yong Lee, Goo Yeon Lee, Hwa Jong Kim, Choong Kyo Jeong
- **Recovery method of Deleted Record for SQLite Database**
SangJun Jeon, Jewan Bang, KeunDuck Byun, SangJin Lee

16:20 - 18:00 [Session 4-D: AFMS 2010](#)**(Room: 204)****(Chair: Hongjoo Lee)**

- **ENFFiS: An Enhanced NAND Flash Memory File System for Mobile Embedded Multimedia System**
Sang Oh Park, Sang-Soo Yeo, Sung Jo Kim
- **Adaptive Motion Vector Smoothing for Improving Side Information in Distributed Video coding**
Jun Guo, Joohee Kim
- **Security Framework for RFID-based Applications in Smart Home Environment**
Divyan M. Konidala, Daeyoung Kim, Chan Yeob Yeun, and Byoungcheon Lee
- **A study on PVDF sensor using wireless experimental system for bridge structural local monitoring**
Yan Yu, Xuefeng Zhao, Yang Wang, Jinping Ou



16:20 - 18:00 [Session 4-E: WTA 2010](#)**(Room: 206)****(Chair: Zeeshan Shafi Khan)**

- **Tunnel Restraint Scheme to Prevent Out-of-Order Packets for RO in PMIPv6**
Jong-Hyouk Lee, Yeong-Deok Kim, DongWoo Lee
- **Routing Protocol for Heterogeneous Hierarchical Wireless Multimedia Sensor Networks**
Jin Myoung Kim, Hee Suk Seo, Jin Kwak
- **Energy Efficient Distributed Face Recognition in Wireless Sensor Network**
Muhammad imran Razzak, Muhammad Khurram Khan, Khaled ALGHATHBAR
- **Dynamic Voltage and Frequency Scaling for Power-Constrained Design using Process Voltage and Temperature Sensor Circuits**
Haiqing Nan, Kyung Ki Kim, Wei Wang and Ken Choi

16:20 - 18:00 [Session 4-F: WTA 2010](#)**(Room: 207)****(Chair: Dongwoo Lee)**

- **Activity-driven Optimized Bus-Specific-Clock-Gating for Ultra-Low-Power Smart Space Applications**
Li Li, Ken Choi
- **Real-time Physiological and Vision Monitoring of Vehicle Driver for Nonintrusive Drowsiness Detection**
Boon-Giin Lee, Sang-Joong Jung, Wan-Young Chung
- **A Polygon Reduction Method for Improving Accuracy of Ranging-Based Indoor Localization System**
Jaesung Park, Yujin Lim, Kilhung Lee, Yong-Hoon Choi
- **Efficient Signal Detection Scheme Based on Spreading Sequence for LED-ID Systems**
In Hwan Park, Yoon Hyun Kim, Jae Sang Cha, Yeong Min Jang, Jin Young Kim

18:30 - 21:00 **Banquet (Holiday Inn Hotel)**

December 11, 2010 (Saturday)

09:00 - 09:30 Registration

09:30 - 12:00 [Session 5-A: ACSA 2010](#)

(Room: 201)

(Chair: Hyoung Joong Kim)

- **Improving Performance of Network Covert Timing Channel through Huffman Coding**
Jingzheng Wu, Yongji Wang, Liping Ding, Xiaofeng Liao
- **Reconfigurable Hardware Implementation of a Simple Authentication Protocol for a Wireless Sensor Networks Platform**
Abdelghani Errandani, Abderrazek Abdaoui, Abderrahim Doumar, Eric Chatelet
- **Mining Constraints in Role-Based Access Control**
Ruixuan Li, Xiaopu Ma, Zhengding Lu, Wei Wang
- **AS Alliance Based Security Enhancement for Inter-domain Routing Protocol**
Peidong Zhu, Huayang Cao, Laurence T. Yang, Kan Chen
- **BLESS: Object Level Encryption for Secured Object-Based Storage System**
Junjian Chen
- **Photography Forensic Approaches Based on Optical Illusions and a Signal Processing Technique**
Hyoung Joong Kim, Soomin Lim, Jongsub Moon, Boram Kim, Eui S. Jung

09:30 - 12:00 [Session 5-B: ACSA 2010](#)

(Room: 202)

(Chair: Hyung Jong Kim)

- **Generic Constructions for Strong Designated Verifier Signature**
DengGuo Feng, Jing Xu, WeiDong Chen
- **An Efficient Privacy-Preserving Identity-Based Broadcast Signcryption for Large-Scale Wireless Sensor Networks**
In Tae Kim, Seong Oun Hwang
- **Breaking the Spacing Based Authentication Protocol**
Serdar Aktas, Emin Anarim, Gokay Saldamli, Imran Erguler
- **Results on Rotation Symmetric Functions over GF(p)**
Shaojing Fu, Deshuai Dong, Chao Li, Longjiang Qu
- **Even-variable Rotation Symmetric Boolean Functions with Maximum Algebraic Immunity**
Shaojing Fu, Chao Li, Longjiang Qu, Bing Sun



09:30 - 12:00 [Session 5-C: Smartphone 2010](#)**(Room: 203)****(Chair: Taeshik Shon)**

- **Resuscitating Privacy-Preserving Mobile Payment with Customer in Complete Control**
Divyan M Konidala, Made H Dwijaksara, Kwangjo Kim, Byoungcheon Lee, Soontae Kim, Daeyoung Kim, Dongman Lee
- **PowerPedia**
Markus Weiss, Thorsten Staake, Elgar Fleisch, Friedemann Mattern
- **Mobile Exploration of Geotagged Photos**
Mattias Rost, Henriette Cramer, Lars Erik Holmquist
- **ANON - a Twitter for products**
Stephan Karpischek, Florian Michahelles

09:30 - 12:00 [Session 5-D: ACSA 2010](#)**(Room: 204)****(Chair: Lin Yao)**

- **Immune-inspired Pattern Recognition Algorithm of Roving Agents for Anomaly Detection**
Kiwon Yeom
- **EAACS: A Proactive and Adaptive Access Control Scheme for Parallel Multiple Emergencies Management of CPS applications**
Guowei Wu, Dongze Lu, Lin Yao
- **A Method of Risk Assessment for Multi-Factor Authentication**
Jaejung Kim, Dongyoung Yoo, Jinyoung Choi, Sengphil Hong
- **A Security Model for IPTV with One-Time Password and Conditional Access System for Smart Mobile Platforms**
Manhyun Chung, Young Hoon Lee, Jongsub Moon

09:30 - 12:00 [Session 5-E: WCC 2010](#)**(Room: 206)****(Chair: Changhoon Lee)**

- **The Study on a Convergence Security Service for Manufacturing Industries**
Hangbae Chang
- **Physical Activity Recognition using Multiple Sensors Embedded in a Wearable Device**
Yunyoung Nam, Seungmin Rho, Chulung Lee
- **Area-Efficient Convolutional Deinterleaver for Mobile-TV Receiver**
Hyeong-Ju Kang, Kwak Jin, Hee Suk Seo



- **Extracting and visualizing human activity patterns of, daily living in a smart home environment**
Yunyoung Nam, Seungmin Rho, Seungjae Lee
- **Authentication Protocol using Identifier in Ad-hoc Network Environmente**
Jong Sik Moon, Im-Yeong Lee
- **LDFS: Live Data Forensic System**
Kyung-Soo Lim, Antonio Savoldi, Sangjin Lee, Changhoon Lee
- **Cryptanalysis of improved simple three-party key exchange protocols**
Taek-Young Youn, Eun Sook Kang
- **The Study on Content Based Multimedia Data Retrieval System**
Yang-hoon Kim, Hyuk-jun Kwon, Jong-gu Kang ,Hangbae Chang
- **AGVUS Ultra-Lightweight Mutual Authentication Protocol for Low-cost RFID Tags**
Zeeshan Bilal, Firdous Kausar, Senol Zafer Erdogan, Jongsung Kim
- **Artistic Image Generation For Emerging Multimedia Services By Impressionist Manner**
SangHyun Seo, SeungTaek Ryoo, KyungHyun Yoon

09:30 - 12:00 [Session 5-F: WTA 2010](#)

(Room: 207)

(Chair: Jongan Park)

- **A circular polarization antenna design for improving the reception of UHF RFID reader**
Jongan Park, Jonghun Chun
- **The Biometric based Convertible Undeniable Multi-Signature Scheme to Ensure Multi-Author Copyrights and Profits**
SungHyun Yun, HeuiSeok Lim, Young-Sik Jeong, SoonYoung Jung, Jae-Khun Chang
- **Power-efficient M-ary PSSK communications**
Dong Kyoo Kim, Yang Sun Lee
- **Wireless LAN Access Point Placement based on User Mobility**
Mohd Fikri Azli Abdullah, Muhammad Taufiq Nuruzzaman, Deokjai Choi
- **A Study of Mobile SMS Spam Filtering**
Muhammad Taufiq N, Mohd. Fikri Azli bin Abdullah, Deokjai Choi
- **The impacts of an electronic marketplace with multiple independent retailers for smart grocery ordering systems**
Loo Hay Lee, Chulung Lee, Jie Bao



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