

PROGRAM SCHEDULE

October 20, 2011 (Thursday)						
09:00 - 09:30	Registration					
09:30 - 12:00	Session 1-A (PDCAT-11) (Chair: Jung-Sik Cho) (Room: 201)	Session 1-B (PDCAT-11) (Chair: Young-Sik Jeong) (Room: 202)	Session 1-C (PDCAT-11) (Chair: Filip Zavoral) (Room: 203)	Session 1-D (ITCS-11) (Chair: Yang hoon Kim) (Room: 204)	Session 1-E (IRoA-11) (Chair: Taeshik Shon) (Room: 206)	Session 1-F (FSTA-11) (Chair: Namje Park) (Room: 207)
12:00 - 13:30	Lunch					
13:30 - 14:40	Opening Remark (PDCAT 2011, ITCS 2011, IRoA 2011) Invited Speaking 1, (Chair: Young-Sik Jeong) Title : A Bio-Inspired Reconfigurable Communication Topology & Applications by Dr. Hamid R. Arabnia (Room: 208)					
14:40 - 14:50	Break					
14:50 - 16:00	Honam IT Exhibition 2011 Free Admission to Everyone (Kimdaejung Convention Center, Exhibition Hall 1F)					
16:00 - 16:20	Coffee Break					
16:20 - 18:00	Session 2-A (PDCAT-11) (Chair: Maria j. Martin) (Room: 201)	Session 2-B (PDCAT-11) (Chair: Jong sung Kim) (Room: 202)	Session 2-C (PDCAT-11) (Chair: Jan Vanek) (Room: 203)	Session 2-D (ITCS-11) (Chair: Hyuk jun Kwon) (Room: 204)	Session 2-E (IRoA-11) (Chair: Jaeik Cho) (Room: 206)	Session 2-F (Smartphone-11) (Chair: Kwang woo Lee) (Room: 207)
18:30 - 20:00	Conference Reception (4F Convention Hall, Kimdaejung Convention Center)					

October 21, 2011 (Friday)						
09:00 - 09:30	Registration					
09:30 - 12:00	Session 3-A (PDCAT-11) (Chair: Jung-Sik Cho) (Room: 201)	Session 3-B (PDCAT-11) (Chair: Sang-Soo Yeo) (Room: 202)	Session 3-C (PDCAT-11) (Chair: Manoranjan Dash) (Room: 203)	Session 3-D (ITAC-11) (Chair: Jang Woo park) (Room: 204)	Session 3-E (PCT-11) (Chair: Dong-oh Kang) (Room: 206)	Session 3-F (PDCAT-11) (Chair: Min Choi) (Room: 207)
12:00 - 13:20	Lunch					
13:20 - 14:20	Invited Speaking 2, (Chair: Hang-Bae Chang) Title : Fault-Tolerant Resource Allocation: Models, Challenges and Solutions by Dr. Hong Shen (Room: 208)					
14:20 - 14:30	Break					
14:30 - 15:30	Invited Speaking 3, (Chair: Hyun Sung Kim) Title : Space-time-frequency coding for next generation MIMO applications by Dr. Hsiao-Hwa Chen (Room: 208)					
15:30 - 15:40	Break					
15:40 - 16:40	Invited Speaking 4, (Chair: Hong Shen) Title : Ubiquitous/Pervasive Intelligence: Visions and Challenges by Dr. Laurence T. Yang (Room: 208)					
16:40 - 16:50	Coffee Break					
16:50 - 18:30	Session 4-A (PDCAT-11) (Chair: Sung-Woon Lee) (Room: 201)	Session 4-B (PDCAT-11) (Chair: Yidong Li) (Room: 202)	Session 4-C (ITCS-11) (Chair: Hong joo Lee) (Room: 203)	Session 4-D (IRoA-11) (Chair: T Asokan) (Room: 204)	Session 4-E (PCT-11) (Chair: Dong-oh Kang) (Room: 206)	Session 4-F (PDCAT-11) (Chair: Seung-Ho Lim) (Room: 207)
19:00 - 21:00	Banquet (Holiday Inn Hotel)					

October 22, 2011 (Saturday)						
09:00 - 09:30	Registration					
09:30 - 12:00	Session 5-A (PDCAT-11) (Chair: Min Choi) (Room: 201)	Session 5-B (PDCAT-11) (Chair: Jung-Sik Cho) (Room: 202)	Session 5-C (ITCS-11) (Chair: Yang Sun Lee) (Room: 203)	Session 5-D (PDCAT-11) (Chair: Seung-Ho Lim) (Room: 204)	Session 5-E (ITMUE-11) (Chair: Sang Oh Park) (Room: 206)	Session 5-F (ITCS-11) (Chair: Jong sung Kim) (Room: 207)
Note	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). 2. All speakers of each session should meet the session chair at its room 10 minutes before the session. 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. 4. If you have any query, please feel free to contact the PDCAT-11, ITCS-11, IRoA-11 (gwangjucon@ftrai.org).					

Keynote and Session Time Changing

Please note that

Keynote Session 2 ~ 4 has been changed
Session 4-A ~ Session 4-F has been changed

DETAILED SCHEDULE FOR ITCS 2011

October 20, 2011 (Thursday)

09:00 - 09:30 Registration

09:30 - 12:00 [Session 1-D: ITCS 2011](#)

(Room: 204)

(Chair: Yang hoon Kim)

- **Analysis of Security Vulnerability and Authentication Mechanism in Cooperative Wireless Networks**
Ki Hong Kim
- **Spam Host Detection Using Ant Colony Optimization**
Arnon Rungsawang, Apichat Taweessiriwate, Bundit Manaskasemsak
- **Korean Voice Recognition System Development**
Soon Jarng
- **Availability Management in Data Grid**
Bakhta Meroufel, Ghalem Belalem
- **Mobi4D: Mobile Value-Adding Service Delivery Platform**
Ishmael Makitla, Thomas Fogwill
- **Fast cancer classification based on mass spectrometry analysis in robust stationary wavelet domain**
Li Yu, Minh Nguyen, Nha Nguyen

09:30 - 12:00 [Session 1-E: IRoA 2011](#)

(Room: 206)

(Chair: Taeshik Shon)

- **An Improved Localization Algorithm based on DV-Hop for Wireless Sensor Network**
Long Chen, Saeyoung Ahn, Sunshin An
- **Proposed Network Coding for Wireless Multimedia Sensor Network (WMSN)**
Ahmad Shahidan Abdullah, Norsheila Faisal, Nor Syahidatul Nadiyah Ismail, Farizah Yunus
- **A Design of Intelligent Smart Controller for Object Audio-based Users Active Control Service**
Jong-Jin Jung, Seok-Pil Lee
- **The Method of Main Vocal Melody Extraction based on Harmonic Structure Analysis from Popular Song**
Chai-Jong Song, Seok-Pil Lee, Hochong Park

- **Towards An Autonomous Indoor Vehicle: Utilizing a Vision-based Approach to Navigation in an Indoor Environment**
Edward Mattison, Kanad Ghose
- **Do Children See Robots Differently? A Study Comparing Eye-Movements of Adults vs. Children When Looking at Robotic Faces**
Eunil Park, Ki Joon Kim, Angel P. del Pobil

09:30 - 12:00 [Session 1-F: FSTA 2011](#)

(Room: 207)

(Chair: Namje Park)

- **Computer Application in Education bases on Fractal Geometry Theory Using LOGO Programming**
Yeonghae Ko, Jaeho An, Namje Park
- **Construction of a Privacy Preserving Mobile Social Networking Service**
Jaewook Jung, Hakhyun Kim, Jaesung You, Changbin Lee, Seungjoo Kim, and Dongho Won
- **An Improved User Authentication Scheme for Wireless Communication**
Woonryul Jeon, Jeeyeon Kim, Junghyun Nam, Youngsook Lee, Dongho Won
- **An Improved Protection Profile for Multifunction Peripherals in Consideration of Network Separation**
Changbin Lee, Kwangwoo Lee, Namje Park, Dongho Won
- **Security Improvement to an Authentication Scheme For Session Initiation Protocol**
Youngsook Lee, Jeeyeon Kim, Junghyun Nam, Dongho Won
- **A Study on the Development of Security Evaluation Methodology for Wireless Equipment**
Namje Park, Changwhan Lee, Kwangwoo Lee, Dongho Won

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 - 14:40 **Invited Speaking 1 : PDCAT 2011**

(Room: 208)

(Chair: Young-Sik Jeong)

**A BIO-INSPIRED RECONFIGURABLE COMMUNICATION TOPOLOGY &
APPLICATIONS**

Dr. Hamid R. Arabnia

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

14:50 - 16:00 **Joint Exhibition**

(Exhibition Hall 1F)

Honam IT Exhibition 2011

Free Admission to Everyone

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

16:20 - 18:00 **Session 2-D: ITCS 2011**

(Room: 204)

(Chair: Hyuk jun Kwon)

- **Simulation Modeling of TSK Fuzzy Systems for Model Continuity**
Hae Young Lee, Jin Myoung Kim, Ingeol Chun, Won-Tae Kim, Seung-Min Park
- **A new method of clustering search results by using frequent itemsets with graph structure**
I-Fang Su, Yu-chi Chung, Chiang Lee
- **An Enhanced Resource Control Scheme for Adaptive QoS over Wireless Networks for Mobile Multimedia Services**
Moonsik Kang, Kilhung Lee
- **Study of Generating Animated Character Using the Face Pattern Recognition**
Seongsoo Cho, Bhanu Shrestha, Bongwha Hong, Hwayoung Jeong

16:20 - 18:00 **Session 2-E: IRoA 2011**

(Room: 206)

(Chair: Jaeik Cho)

- **Artificial pheromone potential field built by interacting between mobile agents and RFID tags**
Piljae Kim, Daisuke Kurabayashi

- **Alternative Concept for Geometry Factor of Frequency Reuse in 3GPP LTE Networks**
Modar Shbat, Vyacheslav Tuzlukov
- **Cognitive Radio Simplex Link Management for Dynamic Spectrum Access Using GNU Radio**
Mohd Adib Sarijari, Rozeha A. Rashid, Mohd Khairul Rashid Khairuddin, Norsheila Fisal, Sharifah Kamilah Syed Yusof, Nurhija Mahalin, Arief Marwanto
- **The Fusion Method for Measuring Similarity of Music Feature Vectors**
Chai-Jong Song, Seok-Pil Lee, Kang Ryoung Park

16:20 - 18:00 **Session 2-F: Smartphone 2011**

(Room: 207)

(Chair: Kwangwoo Lee)

- **iTextMM: Intelligent Text Input System for Myanmar Language on Android smartphone**
Nandar Pwint Oo, NiLar Thein
- **A Novel Technique for Composing Device Drivers for Sensors on Smart Devices**
Deok Hwan Gim, Seng Hun Min, Chan Gun Lee
- **Various Artistic Effect Generation from Reference Image**
Hochang Lee, Sanghyun Seo, SeungTaek Ryoo, KyungHyun Yoon
- **A photomosaic image generation on smartphone**
Dongwann Kang, Sang-Hyun Seo, Seung-Taek Ryoo, Kyung-Hyun Yoon

18:30 - 20:00 **Conference Reception (Convention Hall 4th floor)**

October 21, 2011 (Friday)

09:00 - 09:30 Registration

09:30 - 12:00 [Session 3-D: ITAC 2011](#)

(Room: 204)

(Chair: JangWoo Park)

- **Livestock searching system on mobile devices using 2D-Barcode**
ChulYoung Park, HoSung Cho, DaeHeon Park, YongYun Cho, ChangSun Sing, JangWoo Park
- **Towards a context modeling for a greenhouse based on USN**
DaeHeon Park, ChangSun Shin, JangWoo Park, YongYun Cho
- **Standardization of Agriculture-IT Convergecne Technology in Korea**
SeHan Kim, Cheol-Sik Pyo, ChangSun Shin, JaeYong Lee, ByungChul Kim
- **Ad-Hoc Localization Method Using Ranging and Bearing**
JangWoo Park, DaeHeon Park
- **Accuracy Estimation of Hybrid mode Localization System based on RSSI of Zigbee**
HoSeong Cho, ChulYoung Park, DaeHeon Park, JangWoo Park
- **Design and Implementation of Green House Control System based IEEE802.15.4e and 6LowPAN**
SeHan Kim, Kyo-Hun Son, JaeYong Lee, ByungChul Kim
- **A Study on the Failure-Diagnostic Context-Awareness Middleware for Wireless Sensor Networks**
InGon Park, Chul Young Park, HoSeong Cho, Hong Geun Kim, TaeHyung Kim, Changsun Shin

09:30 - 12:00 [Session 3-E: PCT 2011](#)

(Room: 206)

(Chair: Dong-oh Kang)

- **Web based Application Program Management Framework in Multi-Device Environments for Personal Cloud Computing**
Hyewon Song, Eunjeong Choi, Chang Seok Bae, Jeun Woo Lee
- **Hands Free Gadget for Location Service**
Jinho Yoo, Changseok Bae, Jeunwoo Lee
- **Biologically Inspired Computational Models of Visual Attention for Personalized Autonomous Agents**
Jin-Young Moon, Hyung-Gik Lee, Chang-Seok Bae
- **Mobile Health Screening Form Based on Personal Lifelogs and Health Records**
Kyuchang Kang, Soonguk Heo, Changseok Bae, Dongwon Han

- **Remote Presentation for M Screen Service in Virtualization System**
Joonyoung Jung, Daeyoung Kim
- **Lifelog collection using a Smartphone for Medical History Form**
SeongUk Heo, Kyuchang Kang, Changseok Bae

12:00 - 13:20 **Lunch**

13:20 - 14:20 **Invited Speaking 2 : ITCS 2011**
(Room: 208)
(Chair: Hang-Bae Chang)

Fault-Tolerant Resource Allocation: Models, Challenges and Solutions
Dr. Hong Shen

14:20 - 14:30 **Break**

14:30 - 15:30 **Invited Speaking 3: ITCS 2011**
(Room: 208)
(Chair: Hyun Sung Kim)

Space-time-frequency coding for next generation MIMO applications
Dr. Hsiao-Hwa Chen

15:30 - 15:40 **Break**

15:40 - 16:40 **Invited Speaking 4: PDCAT 2011**
(Room: 208)
(Chair: Hong Shen)

Ubiquitous/Pervasive Intelligence: Visions and Challenges
Dr. Laurence T. Yang

16:40 - 16:50 **Coffee Break**

16:50 - 18:30 **Session 4-C: ITCS 2011 / IRoA 2011**
(Room: 203)
(Chair: Hongjoo Lee)

- **A Study on Turbo Coded OFDM System with SLM for PAPR Reduction**
Mashhur Sattorov, Sang-Soo Yeo, Heau-Jo Kang
- **A Compact S-Box Design for SMS4 Block Cipher**
Imran Abbasi, Mehreen Afzal
- **Facsimile Authentication Based on MAC**
Chavinee Chaisri, Narong Mettripun, Thumrongrat Amornraksa
- **Control Mechanism for Low Power Embedded TLB**
Jung-Hoon Lee

16:50 - 18:30 [Session 4-D: IRoA 2011](#)

(Room: 204)

(Chair: T Asokan)

- **Relative Self-Localization Estimation for Indoor Mobile Robot**
XING XIONG, Byung-Jae Choi
- **Using Optimal Thresholds to Segment Detected Object from Saliency Map**
Nguyen Cao Truong Hai, Kyung-Im Kim, Huyk-Ro Park
- **Q(λ) based Vector Direction for Path Planning Problem of Autonomous Mobile Robotst**
Hyun Ju Hwang, Hoang Huu Viet, TaeChoong Chung
- **Registered Object Trajectory Generation for Following by a Mobile Robot**
Md. Hasanuzzaman, Tetsunari Inamura
- **AN IMPROVED ALGORITHM FOR CONSTRAINED MULTIROBOT TASK ALLOCATION IN COOPERATIVE ROBOT TASKS**
Asokan Thondiyath, Thareswari Nagarajan
- **Simulation-based Evaluations of Reinforcement Learning Algorithms for Autonomous Mobile Robot Path Planning**
Hoang Huu Viet, Phyo Htet Kyaw, TaeChoong Chung

16:50 - 18:30 [Session 4-E: PCT 2011](#)

(Room: 206)

(Chair: Dong-oh Kang)

- **Simplified Swarm Optimization for Life Log Data Mining**
Changseok Bae, Wei-Chang Yeh, Yuk Ying Chung
- **The Design and Implementation of Web Application Management on Personal Device**
Eunjeong Choi, Hyewon Song, Changseok Bae, Jeonwoo Lee
- **Ad hoc Synchronization among Devices for Sharing Contents**
Eunjeong Choi

- **A Framework for Personalization of Computing Environment among SoD (System on-Demand) zones**

Dong-oh Kang, Hyungjik Lee, Jeunwoo Lee

19:00 - 21:00 Banquet (Holiday Inn Hotel)

October 22, 2011 (Saturday)

09:00 - 09:30 Registration

09:30 - 12:00 [Session 5-C: ITCS 2011](#)

(Room: 203)

(Chair: Yang Sun Lee)

- **A Context Information Management System for Context-aware Services in Smart Home Environments**
Jong Hyuk Park
- **Enhanced Security Scheme for Preventing Smart Phone Lost through Remote Control**
Jae Yong Lee, Ki Jung Lee, Jong Hyuk Park
- **SSP-MCloud : A Study on Security Service Protocol for Smart Phones centric Mobile Cloud Computing**
Ji Soo Park, Jong Hyuk Park
- **Self-Adaptive Strategy for Zero-sum Game**
Keonsoo Lee , Seungmin Rho, Minkoo Kim
- **Enhancing Performance of Mobile Node Authentication with Practical Security**
Taeshik Shon, Kyusuk Han
- **Effect of Light therapy of Blue LEDs irradiation on Sprague Dawley Rat**
Taegon Kim, Yongpil Park, Yangsun Lee, Minwoo Cheon

09:30 - 12:00 [Session 5-E: ITMUE 2011](#)

(Room: 206)

(Chair: Sang Oh Park)

- **A Noise Reduction Method for Range Images using Local Gaussian Observation Model Constrained to Unit Tangent Vector Equality**
Jeong Heon Kim, Kwang Nam Choi
- **Group-Aware social trust management for a movie Recommender System**
Mucheol Kim, Young-sik Jeong, Jong Hyuk Park, SangOh Park
- **Collaborative Filtering Recommender system based on Social Network**
Soo-Cheol Kim, Jung-Wan Ko, Jung-Sik Cho, Sung Kwon Kim
- **Consideration on the Security and Efficiency of RFID System**
Jung-Sik Cho, Sang-Soo Yeo, Sung Kwon Kim
- **A Development Framework toward Reconfigurable Run-time Monitors**
Ki-Seong Lee, Chan-Gun Lee

09:30 - 12:00 [Session 5-F: ITCS 2011](#)

(Room: 207)

(Chair: Jongsung Kim)

- **Dynamic Grooming with Capacity aware Routing and Wavelength Assignment for WDM based Wireless Mesh Networks**
Neeraj Kumar, Naveen Chilamkurti, Jongsung Kim
- **The Security Management Model in Intelligence All-Things Environment**
Hangbae Chang, Yanghoon Kim, Jonggu Kang
- **Weakness in a user identification scheme with key distribution preserving user anonymity**
Taek-Young Youn, Jongsung Kim
- **A IT Collaboration Performance Evaluation Model for Value Networks**
Hangbae Chang, Yanghoon Kim, Jonggu Kang
- **A Data Gathering Scheme using Mobile Sink Dynamic Tree in Wireless Sensor Networks**
Kilhung Lee