

Program

9:00~18:00	2nd Ruby	Registration : Thursday. October 25~26, 2007
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Thursday, October 25, 2007

Room	Bordeaux C	Normadie	Education	Bordeaux B	Bordeaux A
10:00~12:00	Opening ceremony (Champagne)				
12:00~13:30	Lunch				
13:30~14:20	Special 1 Dr. Salemla	Invite El-Hang Lee	Tutorial Simon Park		Tutorial Lasse Pykari
14:20~14:30	Coffee break				
14:30~15:50	Special 2 Dr. Salemla	Io1	Uo1	So1	Bo1
15:50~16:00	Coffee break				
16:00~17:20	Eo4	Io4	Uo3	Eo5	Eo7
Room	Champagne				
13:30~14:20	Invite Hiroshi Ishiwara				
14:50~15:30	Poster	First	EpF, NpF, SpF		
15:40~16:20		Second	IpS		
16:30~17:10		Third	BpT, DpT, RpT, UpT, JpT		
18:30~	Banquet				

Friday, October 26, 2007

Room	Education	Normadie	Bordeaux B	Festival	Bordeaux A
9:20~10:50	So3	Special 3 Dr. Salemla	Bo3	So2	Bo2
10:50~11:00	Coffee break				
11:00~11:40	Tutorial Ohyun Kim	Tutorial Yang-Kyu Choi	Tutorial Changsup Ryu	Tutorial Byung Wan Jo	Eo1
11:40~13:30	Lunch				
13:30~14:50	Eo2	Invite Nitin Vaidya	Uo2	Do1	Eo6
14:50~15:00	Coffee break				
15:00~16:20	Eo3	Io3	Do2	Io2	

Saturday, October 27, 2007

9:30~	Seoul City Tour
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List of Chairman

Thursday, October 25, 2007					
Opening ceremony (Champagne)					
Greeting Speakers			Keynote Speakers		
Sung-Bum Park (Assemblyman) The National Assembly of Republic of Korea			Dr. Jeongwook Seo Former Minister of Science & Technology		
Yoo Younghwan Minister of Information and Communication			Dr. Daejae Chin President of SkyLake Former Minister of Information and Communication		
Room	Bordeaux C	Normadie	Education	Bordeaux B	Bordeaux A
13:30~14:20	Special 1 Dr. Salmela	Invite El-Hang Lee	Tutorial Simon Park		Tutorial Lasse Pykari
Chairman	William Zhang San Jo Se Univ.	Young Won Park Aju Univ.	Kauko Kallio Oulu Univ.		Young Hwan Kim Pohang Univ.
14:30~15:50	Special 2 Dr. Salmela	Io1	Uo1	So1	Bo1
Chairman	Sungho Kang Yonsei Univ.	Noriaki Kamiya Aju Univ.	Sang Hyuk Kang Univ. of Seoul	Aulis Tuominen, Univ. of Turku	Henrik Lager erang Turku Univ.
16:00~17:20	Eo4	Io4	Uo4	Eo5	Eo7
Chair man	Sun Ki Hong Hoseo Univ.	woon Sup Choi Heseo Univ.	Young Sup Sin Hanyoung Univ.	Jong kun Kim Youngnam Univ.	Kwang Suk Hong Sungkunkwon Univ.
Room	Champagne				
13:30~14:20	Invite Hiroshi Ishiwara				
Chair man	Oh Kyung Kwon Hanyang Univ.				
14:50~15:30	Poster	First	Chair: In Chul Park (Cheognju Univ.)		
15:40~16:20		Second	Chair: Teresa Oh (Cheongju Univ.)		
16:30~17:10		Third	Chair: Hong Bae Kim (Cheongju Univ.)		

Friday, October 26, 2007					
Room	Education	Normadie	Bordeaux B	Festival	Bordeaux A
9:30~10:50	So3	Special 3 Dr. Salmela	Bo3	So2	Bo2
Chairman	Pauliina Mansik Komaki Tampere Univ.	Han Woo Kim Hanyang Univ.	Alina Tahkapaa Turku Univ.	Teemu Surakka Helsinki Univ.	Waldemar Karwowski Central Florida Univ.
11:00~11:40	Tutorial Ohyun Kim	Tutorial Yang-Kyu Choi	Tutorial Changsup Ryu	Tutorial Byung Wan Jo	Eo1
Chairman	Yungsik Kim Hoseo Univ.	Sung Pil Lee Changwon Univ.	Friedhelm W. Maur COMET China	Yoon Goo Nam Univ. of Seoul	Won Sup Jung Cheong Ju Univ.
13:30~14:50	Eo2	Invite Nitin Vaidya	Uo2	Do1	Eo6
Chairman	Hyung Ki Kim Chungbuk Univ.	Yong Seo Koo Seokyeong Univ.	Anatioliy A. Konov Korea Politec Univ.	Byung Seong Bae Hoseo Univ.	Kwang Ho Kim Cheongju Univ.
15:00~16:20	Eo3	Io3	Do2	Io2	
Chairman	Hee Suk Kim Cheongju Univ.	Kidong Lee Yeungnam Univ.	Hye Yong Choi Dankook Univ.	Kyung Sup Kwak Inha Univ.	

Eo1 : Electronic oral section 1

BpT : Business poster Third

B : Business and Information Systems

D : Display

E : Electronic Production and Semiconductor Technology

I : IT-based Technology and Service

N : Nanotechnology

R : Robotics

S : Social and Business Aspects of IT

U : Ubiquitous and Mobile Computing

PROGRAM

Workshop/special section

Special Reliability
 From component level to system-level reliability estimates
 Olli Salmera
 NOKIA

Invited section

II-01 Recent Progress in Ferroelectric Memory Technology
 Hiroshi Ishiwara
 Tokyo Institute of Technology, and President of The Japan Society of Applied Physics

EI-02 VLSI Photonics; Visions, Issues, and Challenges
 El-Hang Lee
 Inha Univ., IEEE/LEOS Distinguished Lecturer

UI-03 Mobile
 Nitin Vaidya
 Univ. Illinois, Urban-Champaign, and Chief Editor of IEEE Trans. on Mobile Computing, U.S.A.

Tutorial Section

IT-01 Current Storage File system and Future Storage Filer
 Simon Park
 (SIMONE)

UT-02 Miniaturization challenge in electronics manufacturing technology.
 Lasse Pykari
 Senior Technology manager in New Manufacturing Technology team in NOKIA

ET-03 Novel Disital Nonvolatile Memory Devices Based on Semiconducting Pclymer ThinFilm
 Ohyun Kim (POSTECH)

ET-04 New devices beyond CMOS(8nm)
 Yang-Kyu Choi (KAIST)

ET-05 Technology Trend of PKG Substrate
 Changsup Ryu
 Samsung Electro-Mechanics Co., LTD., R&D Center, ACI Lab.

UT-06 Ubiquitous City
 Byung Wan Jo
 Hanyang Univ. Chairman of Association of Ubiquitous Future City

Oral Session

Business and Information Systems

- Bo1-01 Participation in UCC services : focusing on the moderating effect of user characteristics
Kim Yeon Jeong, Chun, Bang Jee* Kin Yoo Jung and Kang Sora
Dept. Digital Business, Hoseo Univ. Asan, Korea
- Bo1-02 Outsourcing the Product Development Phase in Productization Process
Anna-Mari Jokinen¹ and Alina Tahkapaa¹
⁴Dept of Infomation Technology, University of Turku, Finland
- Bo1-03 Achievement drivers of small and medium-sized enterprises
Hannu Vangaranta¹, Jussi Kantola¹, Waldemar Karwowski²
¹Industrial Management and Engineering, Eampere Universityof Technology at Pori, Finland
²Industrial Engineering and Management Systems, University of Central Florida, Orlando, Florida, USA
- Bo2-01 Light-weight Approach for Software Process Modeling-A Case Study
Tuomas Makila¹. Antero Jarvi¹ and Luka Milovanov²
¹University of Turku, Department of Information Technology,
²Plenware Oy Ltd, Embedded Systems, Turku, Finland
- Bo2-02 Elctronics productization process model Case study : Intelligent and energy efficient lighting system
Arho Suominen¹, Janne Makila¹ and Henrik Lagercrantz¹
¹Department of Information Technology, University of Turku, Finland
- Bo2-03 Promote Start ups and Business Incubating System in University
Hong KIM¹, Yunjae Lee²
¹Faculty of Graduate School of Global Entrepreneurship, ²Faculty of Technology Licensing Office, Hoseo University, Korea
- Bo2-04 Evaluating the Quality of Issues Descriptions and Quality of the Resolution Time versus the Quality of Corrective Actions Provided to Customers in Mobile Terminals Arena
Andi Mwegerano¹, Ossi Hämeenoja², Aulis Tuominen³
¹CMO SEQ-Europe/Nokia Corp, Finland ²University of Turku, Finland ³University of Turku, Finland
- Bo3-01 An Empirical Study on the Intention of Adopting Business Process Outsourcing: Exploring the Mediating Effects of Trust
JaeJon Kim, KiJu Cheong, SoonHoo So, and YunHee Lee
School of Business Administration, Chonnam National Univ, Korea
Division of Business Administration, Pusan National Univ. Korea
- Bo3-02 The Effect of the Characteristic of Entrepreneur's Competence on the

Enterprise's Performance-Focusing on BI Resident Enterprises

Yunjae Lee¹

¹Faculty of Technology Licensing Office, Hoseo University, Korea

- Bo3-03 The Productizations Operations Reference(POR) Model
jussi Kantola¹, Aulis Tuominen², Yoon chang³, Hannu Vanharanta¹
¹Industrial Management and Engineering, Tampere University of
Technology at Pori, Finland
²Electronics Productization Unit, University of Turku, Salo, Finland
³School of Air Transport, Transportation and Logistics, Korea Aviation
University, Goyang, Republic of Korea

- Bo3-04 Constructs and Concepts in Management Decision Making
Hannu Vangaranta¹, Anu Suominen¹, Jari Jussila¹, Jussi Kantola¹, Waldemar
Karwowski²
¹Industrial Management and Engineering, Tampere University of Technology
at Pori, ²Industrial Engineering and Management Systems, University of Central
Florida, Orlando, Florida, USA

Display

- Do1-02 Fabrication of White Organic Light-emitting Diodes using Two Complementary
Color Methods
Yon-Hyun Kim, Jae-Yoon Choi, Hyun-Soo Yoon, Su-Hwan Lee, Sungsik Shin
and Woo Yung Kim
School of Display Eng., Hoseo Univ, Korea
- Do1-03 Characteristics of PDP panel which has a modified electrode structure
Kang Jin Lee, Jae Seung Moon, Seung Hee Yang, Cheol Hee Moon
School of Display Eng., Hoseo Univ, Korea
- Do1-04 Transparent Display with ZnO TFT Backplane
Sang-Hee Ko Park, Chi-Sun Hwang, Chunwon Byun, Shinhyuk Yang, Jeong-Ik
Lee, Doo-Hee Cho, Jaeheon Shin, Minki Ryu, Sung Min Yoon, Woo-Seok
Cheong, Oh-Sang Kwon, Eunsuk Park, and Hye Yong Chu
Department of Electronics & Computer Eng., Dankook Univ, Korea
- Do2-01 Polymer electrode and micro-patterning using PEDOT and its organic display applications
¹Dae-Woo Ihm, ²Tae-Wook Kim, ²Jung-Hyun Lee, ¹Youn-Soo Shin,
²Jin-Yeol Kim
¹Dept. of Semiconductor and Display Eng., Hoseo Univ, Korea
²School of Advanced Materials Eng., Kookmin Univ, Korea
- Do2-02 Line Signal Delay Effect on Pixel Voltage
J. T. Yuh and B. S. Bae
School of Display Eng., Hoseo Univ, Korea

- Do2-03 Error-Diffusion Cyclic DAC for Mobile TFT-LCDs
 Jin-Woo Lee, Yoo-Chang Sung, Jin-ho Kim, Ik-Seok Yang and Oh-Kyong Kwon
 Division of Electrical and Computer Engineering, Hanyang University,
 Haengdang-Dong, Seongdong-Gu, Seoul, 133-791, Korea
- Do2-04 Frame Rate Up-Conversion with Bidirectional Sub-Sampled Block Motion
 Estimation and Minimum Deviation Filter
 Suk Ju Kang, Sung Kyu Lee, Dong Gon Yoo, And Young Hwan Kim
 Division of Electrical and Computer Eng., Pohang Univ, Korea

Electronic Production and Semiconductor Technology

- Eo1-01 A Novel Voltage-Programming Pixel with Compensation Method for OLED Degradation
 and Non-uniform Characteristics of Poly-Si TFTs
 Beom-Jin Kim, Hai-Jung In, and Oh-Kyong Kwon
 Division of Electrical and Computer Engineering, Hanyang University, Korea
- Eo1-02 Cold Cathode using Avalanche Phenomenon at the Inversion Layer
 Jung Yong Lee¹
¹School of Electronics & Information Engineering, Cheongju university, S. Korea
- Eo1-03 Optimization of leadless wave soldering process
 Y Wikström², O Hämeenoja¹, A Tuominen¹, O Helppi², J Tapio²,
 T Viljanen²
¹University of Turku, Finland
²Turku University of Applied Sciences, Finland
- Eo1-04 A New LFSR Reseeding based Test Compression Scheme by Virtual Reduction of
 SmaxHong-Sik Kim¹, Hyun-Jin Kim¹, Jin-Ho Ahn², Sungho Kang¹
¹Department of Electrical and Electronic Engineering, Yonsei University
²Department of Electronic Engineering, Hoseo university, Korea
 School of Computer Engineering, Hoseo University, Korea
- Eo2-01 Electrical Characteristics of 200V Power LDMOSFET under various Temperature of
 100K-500K
 Jeong-Man Son¹, Seung-Bum Yuk¹, Jae-Hyun Lee¹, Saamuel Shin¹, Gi-Bbum Sun¹,
 Yong-Seo Koo¹, Chul Ahn²
¹Department of electronic Engineering, Seokyeong University.
² Department of company science , Sogang University. Korea
- Eo2-02 The CT Revolution: High-Speed- Focus X-Ray Computed Tomography For Semiconductor
 and SMT Applications
 Friedhelm W Maur
 COMET China, Business Unit FEINFOCUS

- Ro-1 The nature of signs in Real Orthogonal Transform
Lifeng ZHANG[†], Zhimei YANG[‡], Takaharu KODA[‡], and Hiroshi KONDO[†]
[†]Department of Electrical Engineering, Kyushu Institute of Technology
licomsoft, Inc. ²Global Security Design, Inc. Japan
- Eo3-02 Control Methods and Circuit Technologies for Realizing One Chip Switching Power Supply
Shigeaki Wach, Hirofumi Matsuo
Division of System Science Graduate School of Science and Technology Nagasaki
University, Japan
- Eo3-03 Patterning of poly(Vinylidene Fluoride-Trifluoroethylene) Thin Films by Oxygen Plasma
Etching
Joo-won Yoon ¹, Sumiko Fujisaki ^{1,2} and Hiroshi Ishiwara ¹
¹Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Te
chnology, Japan, ²Hitachi Ltd. Tokyo, Japan
- Eo4-01 Scheduling for Data Broadcasting in Interactive Mobile Convergence
Networks
Sang Hyuk Kang*and Yoon Goo Nam
Department of Electrical and Computer Engineering, University of Seoul
- Eo4-02 Laser Sintering of Ink-jet Printed Ag Nano Ink Traces
Jussi Pekkanen, Matti Mantysalo, and Pauliina Mansikkamaki
Tampere University of Technology, Institute of electronics, Tampere, Finland
- E04-03 The Secure Implementation scheme of OS-platformed mobile embedded system
Wooyong-Choi
SKTelecom, South Korea
- Eo4-04 Investigation on Correlations and Their Effect on Timing in Statistical Static Timing
Analysis
¹Dai Joon Hyun, ²Wook Kim, ³Hyoun Soo Park, and ⁴Young Hwan Kim
Division of Electrical and Computer Engineering, POSTECH, Korea
- Eo4-05 HALT - Tool for Rapid Product Development
Experiences from Practice and Tips for the Practical Test Activities
Kauko Kallio, Professor, MSc
Oulu University of Applied Sciences, Oulu, Finland
- Eo5-01 Investigations on Non-Lognormal Characteristics of Leakage Current
Distribution under Process VariationWook Kim¹, Hyoun Soo Park², Dai Joon Hyun³,
Young Hwan Kim⁴, and Kyung Tae Do⁵
^{1,2,3,4} Division of Electrical and Computer Engineering, Pohang University Science and
Technology
⁵CAE, Samsung Electronics, korea

- Eo5-02 FPGA-Based Hardware Accelerator for Rank and Median Filters for Image processing
Chang choo and Punam Verma
FPGA/DSP Laboratory
Department of Electrical Engineering San jose State University, U.S.A
- Eo5-03 Small Area and Low-power Capacitor Based 8-bit Successive Approximation
Register ADC for Battery Temperature Sensor
Seok-in Hong, Jin-Wook Han and Oh-Kyong Kwon
Division of Electrival and Computer Engineering Hanyang University Seoul, Korea
- Eo5-04 Optimization of a Leadless Wave Soldering Process
Y Wikstrom², O Hameenoja¹, A Tuominen¹, O Helppi², J Tapio², T Viljanen²
¹University of Turku, Finland
²Turku University of Applied Sciences, Finland
- Eo5-05 Suppliers' Participation in Nokia's Product Development: CaseVerification Upstream Project
Dr Antti Perttula
Nokia Corporation, Finland
- Eo6-02 FPGA-Based Embedded Acoustic Echo Canceller System
Chang choo and William Zhang
FPGA/DSP Laboratory
Department of Electrical Engineering San jose State University, U.S.A
- Eo6-03 Design of a Message Transformation Method for Monitoring of Integrated message
between Semiconductor Equipments
Jongsub Han, Kiwon Jung, Yongmuk Lim, Woosung Kim, Geunduk Park
- E06-04 A modular transform method of crypto algorithm for optimized FPGA synthesis
Dongsoo-Kim¹, Janghong-yoon²
¹Attached Institute of ETRI, South Korea
²Attached Institute of ETRI, Soutj Korea
- Eo7-01 Power-Aware Task Scheduling for Dynamic Voltage Selection and Power Management for
Multiprocessors
HyunJin Kim¹, Jin-ho Ahn², Hong-Sik Kim¹ and Sungho Kang¹
¹Department of Electrical and Electronic Engineering, Yonsei University, Seoul, Korea
²Department of Electronic Engineering, Hoseo university, Korea
- Eo7-02 Integrated Humidity Sensor System by CMOS Process with Carbon Nitride
Film
Ji Gong Lee¹, Choong Won Chang¹, Ju Nam Kim¹, Sang Hoon Lee¹, Chan Kim²
and Sung Pil Lee¹
¹Department of Electronic Engineering, Kyungnam University, Masan, Korea
²Mobilelectron Co. Ltd., Changwon, Korea
- Eo7-03 Approaches to effective testing of MEMS sensors

Vesa Henttonen
Afore Oy/Turky, Finland

- Eo7-04 Implementation of the Burst Mode Fiber Optic Transmitter by Digital Temperature Compensation Architecture
Jongho Park*, Sehwan Park, Soochul Park, and Sanghoon chai
Dept. of Electronics Engineering , Hoseo University, Korea
- Eo7-05 Manufacturing Aspects in Inkjet Printed Interconnection Design
Ville Pekkanen, Matti Mantysalo, and Pauliina Mansikkamaki
Tampere University of Technology, Institute of Electronics

IT-based Technology and Service

- Io1-01 New Indexing Method for Spatial Information Query in GIS
Won-Suk Jeong¹, Yoon-Gu Kim¹, and Ki-Dong Lee¹
¹Department of Computer Engineering, Yeungnam University
- Io1-02 A Min-Max DE/GA Hybrid for Constrained Problems
Timo Mantere
Dept. of Electrical Engineering and Automation, University of Vaasa, Finland
- Io1-03 Speechweb Application with Information Selection Agent
Hyeong-Joon Kwon, Tae-Hoon Lee and Kwang-seok Hong
School of Information and Communication Engineering, Sungkyunkwan University
- Io1-04 A Low-cost Motion Capture PSD Camera and Two Active Markers
Changho Han, Pyoungwon Seo, Youngkee Ryu, and Choonsuk Oh
Department of Information and Communications, SunMoon University
- Io1-05 Scheduling for Data Broadcasting in Interactive Mobile Convergence Networks
Sang Hyuk Kang and Yoon Goo Kam
Dep. Electrical and Computer Eng. Seoul Univ. Korea
- Io2-01 Performance Evaluation of Feature Vectors for Teeth Image Recognition
Dong-Ju Kim, Jong-Bae Jeon and Kwang-Seok Hong
School of Information and Communication Engineering, Sungkyunkwan University, Korea
- Io2-02 Performance Improvement for MAC protocol in Real-Time Wireless Sensor Networks
Ho Jang¹ , Kidong Lee¹
¹Dept. of Computer Engineering, Yeungnam Univ., Korea
- Io2-03 Using Java for Developing Game Software
Tae-Kyung Kim, Keum-Young Sung
Division of Computer Science and Electronic Engineering, Handong University, Korea

- Io2-04 A Scalable Context Aware System for Ubiquitous Healthcare Service
Dong-oh Kang¹, Hyung-jik Lee¹, Eun-jung Ko¹ and jeunwoo Lee¹
¹Post-PC Research Group, Electronics and Telecommunications
Research Institute, Daejeon, Korea
- Io3-01 Implementation on Covert Communication based on Steganography
Huang Yongfeng Xiao Bo Xiao Honghua
Department of Electronic Engineering, Tsinghua University, China
- Io3-02 A Deployment of the Presence Service Using SDP in the IMS
Jae-Hyoung Cho¹, Bi-Feng Yu^{1*}, Jae-Oh Lee¹, and Yong-Sik Min²
Information Telecommunication Lab, Dept. of Electrical and Electronics
Engineering, Korea University of Technology and Education, Korea
- Io3-03 Digitally Enhanced Printed Handouts for Elementary Math Tutoring
Kamen Kanev, Nikolay Mirenkov, Noriaki Kamiya
University of Aizu, Japan
- Io3-04 A Study of Personal Ranking Vector for Searched Information on Web
Jae-Youn Jung, Seong-Ho Kim, and Chong-gun Kim
Dept. Computer Engineering , Yeunnam Univ, Korea
- Io4-01 Implementation on the Secret Communication based on Steganography
Huang Yongfeng Xiao Bo Xiao Honghua
Department of Electronic Engineering, Tsinghua University, China
- Io4-02 Web-Data Structure Design for Information Server Based on RFID
Min Jung Ko
Computer Science Institute, Dongguk University
- Io4-03 Delta FBLC based Speech/Non-speech Frame Decision in Real Car
Environment
Yong-Wan Roh¹, Jong-Woo Choi², Dae-Sub Yoon², Hyun-Suk Kim², and
Kwang-Seok Hong¹
¹School of Information and Communication Engineering, Sungkyunkwan
University, Suwon, 440-746, South Korea
²Telematics & USN Research Division, ETRI, 138 Gajeongno, Yuseong-gu,
Daejeon, 305, South Korea
- Io4-04 A New Dynamic Approach of Improving ICI in OFDM Signal
Ahasanun Nessa, Kyung Sup Kwak
Graduate school of Information and Telecommunication Inha Univ, Korea

Robotics

- Ro1-01 The nature of signs in Real Orthogonal Transform
Lifeng ZHANG[†], Zhimei YANG[‡], Takaharu KODA[‡], and Hiroshi KONDO[†]
[†]Department of Electrical Engineering, Kyushu Institute of Technology
¹icomsoft, Inc.
²Global Security Design, Inc. Japan

Social and Business Aspects of IT

- So1-01 Study on Game Contents Using Sound Input of Microphone
Wooseock Yi and Kyungsik Kim
Game Eng., in Hoseo University, Korea
- So1-02 IT Policy Directions for Global IT R&D Centers in Korea: Decreasing the
Perception Gap between Market and Policy Institution
1Sang-Sup Cho, 2Dong-sik Choi, 2Meong-whan Cha, and 2Hey-sun Park
1Faculty of Digital Business Department and Management of Technology
Department, Hoseo University, Korea, 2BK21 Management of Technology
Department, Hoseo University
- So1-03 Promote Start ups and Business Incubating System in University
1Hong Kim, 2Yunjae Lee
1Faculty of Graduate School of Global Entrepreneurship,
2Faculty of Technology Licensing Office, Hoseo University, Korea
- So1-04 Are the mobile terminal related services productized properly?
Timo Rantala¹, Aulis Tuominen²
1 Nokia Corporation, Finland 2 University of Turku, Finland
- So2-01 Developing ICT Utilization in Real Estate Business
Lea Ahoniemi
PhD Research Program Director, Mass Customization and Personalization &
ICT Utilization Research Group, University of Tampere, Finland
- So2-02 Education-Accelerated Implementation of a New Technology: Case Study
Edu-Print
1Paivi H. Karjalainen, 1Pauliina Mansikkamaki, 1Anne Cumini, and 2Juha
Miettinen
1Tampere University of Technology, Institute of Electronics, Finland
2Technology Center Hermia LTD, Finland
- So2-03 A Study on Product Characteristics and Venture Performance
Suh, Sang-Hyuk
Graduate School of Multidisciplinary Technology and Management, University
of Hoseo, Korea

- So2-04 Electronic Monetary System
 Jea-Young Yi*, Laszlo Szirmay Kalos*Haksong Simon Park, Cheon-Hee Yi,
 *Technical University of Budapest, Dept of control Engineering & Informatics, Hungary
 R&D Division, Silicon Modular Network, Inc., USA, Cheong-ju University, Korea
- So3-01 An Overview of Business Incubation in Japan and Future Challenges
 Terutaka Tansho
 Collaboration Center, Shimane Univ, Japan
- So3-02 Using the LED Lighting in the Greenhousesa Pre-study
 Timo Mantere, Toni Harju, Petri Väisuo and Jarmo T. Alander
 Dept. of Electrical Engineering and Automation, University of Vaasa, Finland
- So3-03 Developing a Regional Cluster for Fuel Cell Applications
 Pekka Malinen and Teemu Surakka
 BIT Research Centre, Helsinki University of Technology, Espoo, Finland
- So3-04 Virtual Teams Working Globally
 Ulla Heinonen
 Cultural Production and Landscape Studies, University of Turku

Ubiquitous and Mobile Computing

- Uo1-01 Engagement, Motivation and Inspiration: The SciMyst Framework in Museums
 Teemu H. Laine¹, Carolina Islas Sedano¹, Mikko Vinni¹ and Erkki Sutinen¹
¹Dept. of computer Science and Statistics, University of Joensuu
- Uo1-02 Agent based Model for providing optimized, synchronized and failure free execution of workflow process
 Sohail Safdar, Dr,Jamil Ahmad, Shaftav Ahmed, M.Tayyab Asghar, Saqib Saeed
 Sohail Safdar, Department of Computer Science, Bahria University
- Uo1-03 Localizing the user's position in CAVE-like Display Culster
 DongHoon Kang¹, Changhoon Park², Heedong Ko¹, Yong-Moo Kwon¹, Sang Chul Ahn¹, and Hyoung-Gon Kim¹
¹Imaging Media Reserch Center Korea Institute of Science and Technology, Korea, ²Game Engineering Department , Hoseo University, Korea
- Uo1-04 Physical interaction in Ubiquitous Computing System
 Shi Wang ¹, Yong-Deak Kim¹ and Haining Lee ²
¹ Department of Electrical and Computer Engineering Ajou University. Korea
² Industrial &Information System Engineering Ajou University. Korea.
- Uo2-01 A study on Computer Security Task in Ubiquitous system
 MyoungHee Yi, JeaUn Ryou, ChangDuk Jung
 Korea Power Exchange, Seoul Uni. of Veture & University, Korea Univ.

- Uo2-02 Design of the Adaptor fo interoperability between sub-networks in US Vroker
Il-Jin Oh1, Hyung-Jun Yim1, Yun-Young Hwang1, Kangchan Lee2 and Kyu-Chul1
1Department of computer Engineering Chungnam Natonal University
2Electronics and Telcommunications Resarch Insitute
- Uo2-03 Comparison of a Maximum LikeLihood and a Monent Method Based Algorithm for Retrieving
the Forest Stem Volume
Anatioliy A. Kononov1 and Min-Ho Ka1
1Dept. of Electronic Engineering, Korea Polytechnic University
- Uo2-04 Lexical Acquisition Technology using Language Independent Phoneticizing
Process
In-sung Woo*1, Chwa-cheul Shin1, Heung-soon Kang1, Woo-sung Kim1, Suk-dong Kim1
1Dept. of Computer science, Hoseo University
- Uo3-01 Generating device coordination rule vased on WS-DPEL for ubiquitous computation environment
Won-suk Lee1, Kyu-chul Lee2
1Electronic and Telecommunications Research Institute. Korea
2Department of Computer Engineering, Chungnam Natonal University
- Uo3-02 Design and Implementation of 3D Mobile Phone Application Based on the J2ME System
Song-Won Lee1, Sung-Soo Hong1, Ho-Suk Lee2
1Department of Computer Engineering, Hoseo University
2Department of NewMedia Engineering, Hoseo University
- Uo3-03 Follow Me Follow You : Location Based Ubiquitous Communication Service Framework
Seungpyo Hong, Daeil Seo, Gyuwon Song, Sangchul Ahn,
Donghoon Kang, Jinwook Kim, Heedong Ko
Imaging Media Research Center, Korea Institute of Science and Technology, Korea
- Uo3-04 Application of the WS-ECA Framework to Developing a Healthcare Robot
Haining Lee, Jaeil Park1*, Peom Park1, Dongmin Shin2
1 Industrial & Information System Engineering, Ajou University,
2 Department of Information and Industrial Engineering, Hanyang University, Korea

Poster Session

Business and Information Systems

- BpT-01 A Study on the Classification Matrix on u-city service model and Application
Byung-Wan Jo¹, Sang-Min Park², Jung-Hun Park², Kwang-won Yoon²,
Heoun Kim ²
¹Professor, Dept. of Civil engineering, Hanyang University, Seoul, Korea
²Graduate Student, Dept. of civil engineering, Hanyang University, Korea

Display

- DpT-01 Fluid Dynamical Characteristics of Photo-resist Film Formed by Slit-coater
¹Jangwoo KIM, ²Jindo CHUNG and ³Byoungsu KO
¹Division of Display Eng., Hoseo Univ, Korea
²Dept. of Environmental Eng., ³Dept. of Semiconductor and Display Eng.,
Graduate School, Hoseo Univ, Korea
- DpT-02. Optical Transfer Function and Phase Error of the Incoherent Triangular
Holography
Soo-Gil Kim
Dept. of Information & Control Eng., Hoseo Univ, Korea
- DpT-03. Structure and Photoluminescence of Eu-doped Low-Cristobalite and Low-
Quartz type Phosphors
Jeong Seog Kim, Jin-Ho Choi, Kyoung Ho Lee, and Chae-Il, Cheon
¹Dept. of Digital Display Eng., Hoseo Univ, Korea
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- DpT-04. High efficient blue organic light-emitting diodes using exothermic and
endothermic Förster energy transfer from DPVBi to BCzVBi
You-Hyun Kim, Jea-Yoon Choi, Hyun-Soo Yoon, Su-Hwan Lee, Sungsik Shin
and Woo Young Kim
School of Display Engineering, Hoseo Univ, Korea
- DpT-05. Effect of Leakage Current and Threshold Voltage on OLED Pixel Circuit
Seon Pyo Hong, Nam Hyun Jeong, Sang Woo Kim, and Byung Seong Bae
School of Display Eng., Hoseo Univ, Korea
- DpT-06. Transflective Liquid Crystal display for Dual Operating Mode
Chul Gyu Jhun, Byung Seong Bae, and Soon-Bum, Kwon
School of Display Eng., Hoseo Univ, Korea

- DpT-07. Fast Driving Techniques for Reflective Liquid Crystal Displays
Woon-Seop Choi, Nam Seok Lee, Hyun Soo Shin
School of Display Eng., Hoseo Univ, Korea
- DpT-08 Adaptive Color Processing Algorithm for Frame Rate Up-Conversion
Dong Gon Yoo, Suk Ju Kang, Sung Kyu Lee, and Young Hwan Kim
Division of Electrical and Computer Engineering, Pohang University of Science
and Technology
Nam-Gu, Pohang, Kyungbuk Republic of Korea
- DpT-09 Lifetime estimation of a multi-chip bluetooth module
Jae-Jung Kim, Young Kap Son, Seog-Weon Chang, Kae-Dal Kwack
Reliability analysis research center, Hanyang Univ., Korea
- DpT-10 The effect of chemical reaction of fluorine on the growth of poly-Si thin films
prepared by reactive thermal CVD
Cheolhyun Lim, Jungwoo Lee and Junichi Hanna
Imaging science and engineering Lab., Tokyo institute of technology,
Nagatsuta, Midori-ku, Yokohama, Japan
- DpT-11 A New Driving Scheme and Pixel Structure for Compensating OLED Degradation and
TFT Variation
Chang-Ho Lee and Oh-Kyong Kwon
Division of Electrical and Computer Engineering, Hanyang University, Heangdang-Dong,
Seongdong-Gu Seoul, 133-791, Korea

Electronic Production and Semiconductor Technology

- EpF-01 Improvements for Accelerated Testing and Analysis
Jarno Kankaanranta, Ossi Hämeenoja, Aulis Tuo
Department of Information Technology, University of Turku/Salo, Finland
- EpF-02 A modular transform method of crypto algorithm for optimized FPGA synthesis
Dongsoo Kim, Janghong Yoon
NSRI, Korea
- EpF-03 Digital FM Receiver Implementation using a Phase Locked Loop
Kang Hyeon RHEE
Dept. of Electronic Engineering, Chosun University, Korea
- EpF-04 USN Channel Establishment using BIBD Code and Wavelet Filter
Kang Hyeon RHEE
Dept. of Electronic Eng., Multimedia & Biometrics Lab., Chosun University,
Korea
- EpF-05 AFM Images and XPS Analysis of Low-k Film Deposited By CCP-CVD
1Sang Shin Jung, 2In Chul Park, 2Teresa Oh, 2Hong Bae Kim

1Chungbuk Techno-Park Foundation Semiconductor Test Center, Korea
2School of Electronics and Information Engineering, Cheonju University, Korea

- EpF-06 Correlation between Carbon Content and Leakage Current in Si-O-C Related Bond
Teresa Oh and Hong Bae Kim
School of Electronics and Information Engineering, Cheonju University, Korea
- EpF-07 A Study on Buck Converter Using Microcontroller
1Hyungi Kim, 2Yonghui Lee and 3Cheonhee Yi
1Dept. of Education Public Official, Keukdong Collage, Korea
2Division of Computer Information Center, Shinsung College, Korea
3Dept of Electronic Engineering, Choung-ju University, Korea
- EpF-08 Development of Micro-Scale Solenoid-Type RF Chip Inductors
1*Jae-Wook KIM, 2Hee-Cheul Kim and 3Hyeong-Sik Park
1Dept. Electronic Eng., Namseoul university, Korea
2Dept. Industrial and Management Eng., Hoseo University, Korea
3Dept. of Semiconductor & Display Eng., Hoseo University, Korea
- EpF-09 Membrane bio-fouling control using high-voltage impulse electric fields
1Ju-Hun Lee, 2In-Soung Chang, 3June-Ho Lee and 4Chin-Woo Yi
1Dept. of Semiconductor & Display Eng., Hoseo University, Korea
2Dept. of Environmental Eng., Hoseo University, Korea
3Dept. of Electrical Eng., Hoseo University, Korea
- EpF-10 Preparations and Characterizations of the Dielectric MgAl₂O₄ Thin Films
1Young Taek Lee, 2Jeong Seog Kim and 1,2Chae Il Cheon
1Dept. of Materials Science and Eng., Hoseo University, Korea
2Dept. of Digital Display, Hoseo University, Korea
- EpF-11 Optical and structural properties of undoped ZnO films post-annealed by Helium gas
1Hyeong-Sik Park, 2Jeong-Yeol Yoo and 1,2Eui-Jung Yun
1Dept. of Semiconductor & Display Eng., Hoseo University, Korea
2Dept. of Information & Controls Eng., Hoseo University, Korea
- EpF-12 A Novel ESD Protection Circuit using Triple Well CMOS Technologies
1Jeong-Man Son , 1Gi-Bbum Sun, 1Samuel Shin, Jin Keun Koo, Jin Young-Kang, 1Yong-Seo Koo
1Dept. of Electronic Eng., Seokyuong University, Korea
2Electronics and Telecommunications Research Institute, Korea
- Ep1-13 The design and fabrication of 2.2Gbps Bi-CMOS LVDS transmitter with the latch-up immune ESD protection circuit
1Jae-Hyun Lee , 1Seung-Bum Yuk , 1Yong-Seo Koo, 2Kui-Dong Kim, 2Jong-Ki Kwon

1Dept. of Electronic Eng., Seokyuong University, Korea
2Electronics and Telecommunications Research Institute, Korea

- EpF-14 Design of a Message Transformation Method for Monitoring of Integrated message between Semiconductor Equipments
Jongsub Han, Kiwon Jung, Yongmuk Lim, Woosung Kim, Geunduk Park
School of Computer Engineering, Heseo University, Korea
- EpF-15 Ionic conductivity of polyelectrolyte with ionic liquid based on Phosphonium cation
1E.H Cha, 2S. A. Lim, 3J. H. Park
1College of liberal art & Science, Hoseo, Univ, Korea
2Functional proteomics Center, Korea Institute of Science and Technology
3Dept. of Natural Science, Hoseo, Univ., Korea
- EpF-16 SA-Based Test Time Optimization for SoCs Using Networks-on-Chip
Jin-Ho Ahn¹, Hong-Sik Kim², Hyunjin Kim², Youngho Park³, and Sungho Kang²
1 Department of Electronic Engineering, Hoseo University, Korea
2 Department of Electrical and Electronic Engineering, Yonsei University, Korea
3 NoC Technology Team, Network Technology Lab., ETRI, Korea
- EpF-17 The EMG signal process comparing ANN and SVM
Ji-Hoon Kim, Young Hwan Park and Junghwa Hong
Dept. of Control & Instrumentation Eng., Korea Univ, Korea
- EpF-18 Design of Low Power Micro-Processor Using Clock Gating Based on ODC Computation
Seo ho Kim, cheol hong Kim, heeyoung Shin, Hiseok Kim
Dept. of Electronics & Information, Chongju Univ, Korea
- EpF-19 A Study on the Improvement of Data Retention Time by Plasma Damage Effect
1Young-In Hong, 2Young-Gyu Choi, Jea-Young Yi, 3Peter ARATO, 4Cheon-Hee Yi
1Busan Info-Tech College, Korea, 2Chung-Ju National Univ , Korea
3Technical Univ of Budapest, Dept of control Engineering & Informatics,
4Dept of Electronic Engineering, Chong-ju Univ, Korea
- EpF-20 ECG Characteristic Point Detection using Complex-valued Continuous Wavelet Transforms
Abibullaev Berdakh¹, Seo Hee-Don²
Department of Electronic Engineering, Yeungnam University, Korea
- EpF-21 A Study on Development of U-Overloaded Vehicles Management System
Byung-wan Jo¹, Kwang-won Yoon², Jung-hoon Park², Yoon Suk Min², Heoun Kim²
1Professor, Department of Civil engineering, Hanyang university, Korea
2Graduate Student, Dept. of civil engineering, Hanyang University, Korea

- EpF-22 Design of a CMOS LVDS Driver for a High Speed Serial Link
Hee-Sun Ahn, Won-ki Park, Sung-Chul Lee
Korea Electronics Technology Institute
- EpF-23 Charge-Pump with Regulated a Cascode Circuit for Reducing Current Mismatch in PLL
Hee-Sun Ahn, Won-ki Park, Sung-Chul Lee
Korea Electronics Technology Institute
- EpF-24 A Study on Hot Carrier Immunity Buffered Deposition Device for High Density Chip Realization
Hwanseok Kim¹, Yonghui Lee² and Cheonhee Yi³
¹Division of Information and Communication Engineering, Kangnung National University, Korea
²Division of Computer Information Center, Shinsung College, Korea
³Dept of Electronic Engineering, Chong-ju University, Korea
- EpF-25 A Study on Characteristics of Wet Oxide Gate and Nitride Oxide Gate for fabrication of NMOSFET
Jea-Young Yi¹ Laszlo Szirmay Kalos Young-Hui Lee² Ki Jong Hah³ Cheon-Hee Yi⁴
¹Technical University of Budapest, Dept of control Engineering & Informatics
²Shinsung college, Division of Computer Application
³GangNeung YeonDong College
⁴Chong-ju University, Korea
- EpF-26 A Fabricated Back-gate Field Effect Transistor by Using Pure ZnO Nanowires
Kyoung-Won Kim¹, Gun-Eik Jang¹, Dong-won Park^{2,3}, Jeong-O Lee², Beom Soo Kim³
¹Department of Advanced Materials Engineering, CBITRC, Chungbuk National University, Cheongju, Korea
²Fusion Biotechnology Research Center, Korea Research Institute of Chemical Technology, Korea
³Department of Chemical Engineering, Chungbuk National University, Korea
- EpF-27 A Novel Low-Cost Resistance-to-Time onverter for Resistive Bridge Sensors
Min-Young An¹, Chang-Su Won¹, Won-Sup Chung^{1*}, and Sang-Hee Son¹
¹Department of Semiconductor Engineering, Cheonju University, Korea
- EpF-28 Bridge Resistance Deviation-to-Period Converter with High Linearity
Po Lee¹, Chang-Soo Won¹, and Won-Sup Chung^{1*}
¹Department of Semiconductor Engineering, Chongju University, Korea
- EpF-29 Fabrications and Properties of Al/VF₂ - TrFE/n+- Si(100)Structures for nonvolatile Memory Application
Sang-Hyun Jeong¹, Soon-Won Jung², Haeng-Chul Choi¹, Hyung-Sun Yun¹, and Kwang-ho Kim¹

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- EpF-30 Ceramic Filled Polymer Integrated Capacitor Formation Using Design of Experiment
Sei Young Mun¹, Cheolung Cha² and Sang Jeon Hong¹
1Dept. of Electronics Engineering & MITERI, Myongji University, Korea
2Korea Electronics Technology Institute, Korea
- EpF-31 Design of CMOS Touch Sensor Interface Circuit with Low Power at Wide Supply Voltage
So-hyun Park, Young-Sun Kim, Pil-Soo Hyun, Sung-ho Yun, Hyeong-Woo Cha, and *Sung-Soo Kim
School of Electronics Communication Eng., Cheongju University, Korea,
*ETA chips Co., Ltd, Korea
- EpF-32 A High-speed Level-Shifter Circuit for PDP Scan Driver
Won-Ki Park, Sung-Chul Lee
SoC Research Center, KETI(Korea Electronics Technology Institute), Korea
- EpF-33 Temperature insensitive Power-ON-Reset Circuit
Won-Ki Park, Sung-Chul Lee
SoC Research Center, KETI(Korea Electronics Technology Institute), Korea
- EpF-34 Design and Fabrication of High Speed TFT LCD Driver IC Using Pre-Driving Method
Wan Jik Lee¹, Joong Bae Son¹, Soo Yang Park¹, Sang Hee Son^{1*}, Won Sup Chung¹
1Department of Semiconductor Engineering, Chongju University
- EpF-35 TFT LCD Driver IC with Newly Proposed Rail-to-Rail Driving Scheme
Lee¹, Kyu-Sik Lee¹, Soo-Yang Park¹, Sang-Hee Son^{1*}, and Chung¹
¹Department of Semiconductor Engineering, Chongju University, Korea
- EpF-36 A Switched-Capacitor Interface Circuit for Differential Capacitance Transducers
Jin-Woong Jeong, Chang-Soo Won, and Won-Sup Chung*
Cheongju University, Choengju, Korea
- EpF-37 CMOS Charge Sensitive Amplifier for X-ray Imaging Applications
Jae Yun Lee, Jung Ho Park, Seungoh Jin, Young Huh, Sungchae Jeon
Electro-Bio Sensor Research Lab., Korea Electrotechnology Research Institute, Ansan, Korea
- EpF-38 Design of Si-PIN X-ray detector for single photon counting imaging
Bonghoe Kim¹, Sungchae Jeon¹, Jinyoung Kim², Kihyun Kim¹, Seongoh Jin¹, Young Huh¹
1Electro-Bio Sensor Research Lab., Korea Electrotechnology Research Institute, Ansan, Korea
2MicroBiochipCenter, Hanyang Univ., Ansan, Korea

IT-based Technology and Service

- IpS-01 A New Clustering Technique of XML Documents based on Function Transform and FET
Ho Suk Lee* , Keun Duk park, Kyung Sik Kim , Suk Dong Kim, Sung soo Hong
Division of Computer & Engineering, Hoseo University, Korea
- IpS-02 A proposal Representation, Digital Coding and Clustering of Odor Information
Heong-Do Kim1 and Dong-Jin Kim1*Hoseo University, 165 Sechul,
Beebang, Asan city, Chungnam, 336-795, Republic of Korea
- IpS-03 Aerodynamic Analysis and Optimization of Three-Dimensional WIG-Craft
Airfoils Using Multi-Objective Genetic Algorithm
Kyoungwoo Park1*, Byoeng Sam Kim2, Chol Ho Hong3, Juhee Lee4 and Joseph
Zarka5
Hoseo University, Chungam(336-795), KOREA
- IpS-04 Educational Simulation Using 3D visualization of Remote Sensing Data
Myunghee Jung1 and Eui-jung Yun2
- IpS-05 A Policy-Based QoS Management Framework in the IMS Using User
Registration
Nae-Son Lee1, Je-Hyun Lee1*, Jae-Oh Lee1, and Yong-Sik Min2
Information Telecommunication Lab, Korea University of Technology and
Education, Korea
- IpS-06 Game Contents for the Elderly using the u-Table Interface
Sungjun Park1*, and Joonhee Ahn2
Dept. Game Engineering, Hoseo University, KOREA
Dept. Gerontological Social Welfare, Hoseo University, Korea
- IpS-07 A Platform for Virtual Environment Applications
Changhoon Park1*, and Heedong2
Dept. of Game Engineering, Hoseo University, Korea
Korea Institute of Science and Technongy, Korea
- IpS-08 A Bad Example Causing Fallacies for Learning Concept in Numerical Analysis
1In Jung Lee, 2Seong Rak Rim, *3Ki Seok Song
Dept. Computer Engineering, Hoseo University/sechuli. KOREA
Dept.Mechatronics Engineering, Hoseo University/sechuli. KOREA
- IpS-09 The Study of the health Monitoring of Bridge Systems Using Ubiquitous Computing
Technology
Jeong-Hee Chang1, Hae-Yun Choi1, Snag-Ju Han1
Institute of Construction Technology, DONG IL Engineering Consultants Co.
LTD, Korea

- IpS-10 Mathematical Analysis of multi-class Broadcasting System for supporting
IP-media Service
Seng Kyoun Jo¹, Dipanarayan Guha², Kwi Hoon Kim¹, Hyun Woo Lee and
Won Ryu¹
¹Electronics and Telecommunications Research Institute(ETRI), Korea
- IpS-11 A Linear Programming Based Routing Approach in Wireless Ad-Hoc Network
M. ArifSiddiqui, Sana Ullah, Kyung Sup Kwak
Graduate School of IT and Telecommunication, Inha University, Korea.
- IpS-12 Resolution of Unidentified Words in Machine Translation
Sara Ullah*, M.Asdaque Hussain*, Kyung Sup Kwak*
Graduate School of IT and Telecommunications, Inha University, Korea.
- IpS-13 2-D Product Code Iterative Decoder
Kang Hyeon RHEE
Dept. of Electronic Eng, Chosun Univ. Korea
- IpS-14 Korean Manual Alphabet Recognition for a word Processor
Young-Joon Oh¹, Kwang-Hyun Park² and Zeungnam Bien³
¹Human-friendly Welfare Robot System Engineering Research Center Korea
Advanced Institute of Science and Technology, Korea
^{2,3}Dept. of Electrical Engineering and Computer Science Korea.
- IpS-15 Standardization Activity and Design Consideration for mobile Web Best Practic
Sunghan Kim¹, Jonghong Jeon¹ and Seungyun¹
¹IPEC,ETRI Daejeon, Korea
- IpS-16 Glory-FS : A Design and Implementation of Distributed File System for
Large Scale Global Internet Services
Young-Soo Min, Keun-Tae Park, Sang-Min Lee, Gi-Sung Jin,
Myung-Hun cha, Young-Kyun Kim and Myoung-Joon Kim
Internet Server Technology Group, Electronics and Telecommunications
Research Institute, Daejeon, Korea
- IpS-17 A Prioritized Random Access with Modified Back-off Algorithm for
DOCSIS-based HFC Network
Jinuk Sun¹, Seung-eun Hong² and O-hyung Kwon²
¹University of Science & Technology, Yuseong-gu, Daejeong, Korea
²Electronics and Telecommunications Research Institute, Korea
- IpS-18 A Study on Experiment of WIM Sensor for Implementation of
U-Overloaded Vehicle Regulation System
Choi, Hae-Yun¹, Chang, Jeong-Hee¹, Choi, Kwang-Soo¹
¹Institute of Construction Technology, DONG IL Engineering Consultants
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- IpS-19 DHCP Deployment Method Offering an Efficient Maintenance Functionality in GPON
Hyeonsik Yoon¹, Jaehoon Yu² and Kwangjoon Kim¹
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- IpS-20 A Game Scenario Sketching Tool Using Synchronization Model
Hyouk Hoon Gwon¹, Soo Cheol Ha²
1BuddyGames Co., Seoul, Korea
2Dept. of Computer Engineering, Daejon Univ.,
- IpS-21 Remote Monitoring Environmental Storage Data Based on RFID
ILmyung Kim¹, Ni Georgy², Kijung Cho³and Suhee Kim⁴
Department of Computer Engineering, Hoseo University
- IpS-22 Multimedia Fingerprint Generation using BIBD and Hopfield Network
Kang Hyeon RHEE
Dept. of Electronics Eng., Multimedia & Biometrics Lab, Korea
- IpS-23 A Study of a Peer Authentication Method in JXTA based Peer-to-Peer Environment
Byeong-Thaek Oh, Sang-Bong Lee, and Ho-Jin Park
Real-Sense Media Convergence Research Team, Electronics and Telecommunications Research Institute, Korea
- IpS-24 Plans for Development of a Bridge Maintenance Software Program using RFID
Byung-Wan Jo¹, Yo-Sub Yang², Suk-Min Yoon², Byung-Chul Shin², Ju-Ran Kim²
Dept. of Civil engineering, Hanyang University, Korea
- IpS-25 A Basic Concept of Ubiquitous Defense Information Center
Byung-Wan Jo¹, Seong-Hee Han², Suk-Min Yoon², Yo-Sub Yang², Ju-Ran Kim²
Department of Civil engineering, Hanyang University, Korea
- IpS-26 A Theoretical Study on U-Eco Space System
Byung-wan Jo¹, Sei-young Oh², Byung-chul Shin², Seung-hyun No², Ju-ran Kim²
Department of Civil engineering, Hanyang University, Korea
- IpS-27 Development of vibration sensor for Ubiquitous Median Strip System in the Highway
Byung-wan Jo, Jung-Hoon, Kwang-won Yoon, Heoun Kim, Sang-Min Park
Dept. of Civil engineering, Hanyang Univ, Korea
- IpS-28 Development of intelligent bridge control system using USN
Byung-wan Jo¹, Heoun Kim², Jung-hoon Park², Suk-min Yoon²,

Kwang-won Yoon²
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- IpS-29 A Method for Detecting Plagiarism Using Dotplot in Natural Language Documents
Cha-Hee Kim¹, Dong-Joo Kim² and Han-Woo Kim³
Dept. of Computer Science and Engineering, Hanyang University, Korea
- IpS-30 A Method for Searching Gradually Increasing Text in Mobile Devices
Dong-Joo Kim and Han-Woo Kim
Dept. of Computer Science and Engineering, Hanyang University, Korea
- IpS-31 A study on the secure mechanism using SMS and TPM in the mobile device
Jeong-Woo Lee, Sung-Ik Jun
Electronics and Telecommunications Research Institute (ETRI), Korea
- IpS-32 An Efficient QoE Support Video Quality Measurement Scheme over IP
Network for IP-Media Services
Jinsul Kim, ¹Hyun-Woo Lee, ¹Won Ryu, and ²Minsoo Hahn
¹BcN Interworking Technology, BcN Research Division ETRI, Korea
²Digital Media Laboratory, Information and Communications Univ, Korea
- IpS-33 Web-based Document Authentication Using Digitally Affixed Handwritten
Signature in SVG Format
Rolyn C. Daguil¹, Krislan B. Ong¹ and Jung-Gil Song²
¹PhD Student, Computer Engineering, Hannam University. Korea
²Computer Engineering, Hannam University. Daejeon, Korea
- IpS-34 Detecting of conjectural mistagging in HMM part-of-speech tagging
Yong-Soo Seol, Dong-Joo Kim, and Han-woo Kim
Dept. of Computer Science and Engineering, Hanyang University, Korea
- IpS-35 A Unified Approach to Trace Non-Functional Requirements with UML
Young Dae Kim, Seong Chae Seo, Jin Ho You, Byung Ki Kim
Department of Computer Science, Chonnam National University, Korea
- IpS-36 Glory-FS: A Design and Implementation of Distributed File System for Large
Scale Global Internet Services
Young-Soo Min, Keun-Tae Park, Sang-Min Lee, Gi-Sung Jin,
Myung-Hun Cha, Young-Kyun Kim and Myoung-Joon Kim
Electronics and Telecommunications Research Institute, Korea
- IpS-37 Future Storage System as Brain Coordinator and Limitation of Current One
Haksong Simon Park, Cheon-Hee Yi
R&D Division, Silicon Modular Network, Inc, USA
- IpS-38 Design and Implementation of a Crypto-Processor with High Speed Session Switching
Mechanisms in Multi-session Environment

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2Dept. of Computer Engineering, Chungnam National University, S. Korea

- IpS-39 Reconstruction of Personal Local Knowledge Network for making more efficient Intelligent System
Jeong Yon Shin
Div. of GS, Computer Science, Kangnam University, Korea
- IpS-40 Interoperation of IP based Multimedia Telephony Services between fixed-mobile networks
Jong-Haw Yi, Shin-Gak Kang
Protocol Engineering center, ETIR, Korea
- IpS-41 Audio Streaming Server Performance
Jing M. Tsui¹, Sania Salahuddin¹ and Charles Thompson¹, Bo Kim²
Department of Electrical and Computer Engineering, Univ. of Massachusetts¹
Department of Computer Science and Information Systems, Daniel Webster College²

Nanotechnology

- NpF-01 Effect of Organic Treatment in Thin Film as Insulator
Jong Wook Kim¹, Min Seok Kim¹, Hong Bae Kim¹, Teresa Oh¹
1Dept. Affiliation, School of Electronics and Information Engineering, Cheongju University, Korea
- NpF-02 Preparation of L1 FePt nanoparticles nt a chemical vapour condensation (CVC) method
H.D KIM¹, T.S Jang¹, J.H Yu², D.W. Lee², and .BK. Lee²
1Department of Electronic Materials Engineering, Sunmoon University
2Department of Power Materials, Korea Institute of Materials Science, Korea

Robotics

- RpT-01 Graph cut based contour detection and disparity map extraction for robot system with stereo vision
Tae-hoon Kang¹, Jangseok Oh¹, Onseok Lee², Mingi Kim¹
1Department of electronics and Infomation Engineering, Korea University
- RpT-02 Robust Estimation of Direction of Arrival of Sound for Mobile Robot
Cheol-Teak Kim, Tae-Young Choi, Byongsuk Choi, and Ju-Jang Lee,
Senior member, IEEE
- RpT-03 Develpment of Milking Robot System Using Teat Detection Method of Laser Linear Scanning
Shin Kyoo Jae*, Lee Jeong Du*, Kwon Du Jung**

*Suncheon First college, **National Institute of Animal Science, Korea

- RpT-04 A Study of Optimization Design for Buried type Permanent Magnet Synchronous Generator
Kwang-Ho Lee*, Hyuk-Ki Kwon and Sun-Ki Hong
1Department of Information & Control, Hoseo University, Korea
- RpT-05 A study of Error Compensation Improvement of Register Controller For high speed Printing Machine Using TMS320F2812
*Hyuk-Ki Kwon, Kwang-Ho Lee, Sun-Ki Hong
*Department of Information & control, Hoseo University, Korea

Social and Business Aspects of IT

- SpF-01 The Effect of the Characteristic of Entrepreneur's Competence on the Enterprise's Performance – Focusing on BI Resident Enterprises
Yunjae Lee
Faculty of Technology Licensing office, Hoseo Unibersity, Korea
- SpF-02 Comparison of the impact and stature of the UK creative industries with those from South Korea.
Kim, Yun-Kyung
Game Engineering, Hoseo University, Korea
- SpF-03 A Study on Regulations of the 3G Interconnection Charge
Eunjin Cho¹, Hyunmi Baek², Jaeho Byun³, Jeehyung Lee⁴
Fair competition research team, ETRI, Daejoen, Korea

Ubiquitous and Mobile Computing

- UpT-01 The study on the System Monitoring the Breakage-Sensible Pipe Network
JaeSoon Seo¹, SangJo Yoon²,
MinSeop Kim, HyeongHo Kim, SangUong Jeong, SongSu Tak, JeongJin Ahn,
Kyosik Park³
1WACON CO.,LTD, 2WISTCO CO.,LTD, 3KGS(Korea Gas Safety corporation)
- UpT-02 A Real-Time Ubiquitous Trading System on X-internet technology
Phil Doo Hong^{***}, Yong Woo Lee
Seoul Grid Center*, Meritz Securities**
- UpT-03 The Study on The System Monitoring the Breakage-Sensible Pipe Network
*JaeSoon Seo, SangJo Yoon, MinSeop Kim, Hyeong Ho Kim, Sang Yong Jeong, SongSu Tak, JeongJin Ahn, Kyosik Park KGS
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- UpT-04 Efficient Service Provisioning with xen-based Virtual Machines
 JI HYOUNG LEE¹, KWANG WON KOH², YOUNG CHOON WOO² and
 SEOUNG JO BAE²
¹Korea University of Science and Technology
²Electronics and Telecommunications Research Institute
- UpT-05 The Secure Implementation scheme of OS-platformed mobile embedded
 system
 WooyoungChoi
 SKtelcom
- UpT-06 Fast Handover for PMIPv6 Based on 802.11 Net-works
 Joo-chul Lee¹, Sang-Ha Kim²
¹Protocol Engineering Center, Electronics and Telecommunications
 Research Institute
²Department of Computer Engineering Chugnam National University
- UpT-07 Love and Thanks Image Transformation Message System Based on the
 Knowledge
 Song-Won Lee¹, Heon-Sik Joo^{2*}, Sung-Soo Hong¹
¹Dept of Computer Engineering, Hoseo University
²Division of computer Science & Engineering Sahmyook University
- UpT-08 Trajectory Pattern Analysis over Spatial Data Streams
 Weon-Il Chung¹ and Ho-Seok Kim^{2*}
¹Department of Information Security, Hose University
²Department of Computer Science and Information Engineering, Inha
 University, Koera
- UpT-09. A Cross-Layer based Channel Adaptation using Frame Skipping for Real-
 time Video Transmission
 Jeong-hoon Lee, Hye-lim Koo, Byeong-hee Roh
 Graduate School of Information and Communication, Ajou University, Korea
- UpT-10 The Study on the System Monitoring the Breakage-Sensible Pipe network
 JaeSoon Seo¹, SangJo Yoon², Minseop Kim, HyeongHo Kim, SangYoung
 Jeong, SongSu Tak, JeongJin Ahn, KyoSik Park³
¹WACON CO., LTD./ Seoul Korea, ³KGS Seoul Korea
- UpT-11 Multiple Routers-based Architecture for IPv6-Based Wireless Sensor
 Networks (6LoWPANs)
 Seuk Jung, Ali Hammad Akbar, Byeong-hee roh, Ki-hyung Kim
 Graduate School of Information and Communication Ajou University, Korea
- UpT-12 Design and implementation of Virtual Reality System based on 3D-GIS for
 U-Eco City construction
 Byung-wan Jo¹, Seung-Hyun No², Sei-Yung Oh², Byung-Chul Shin²,

Seong-Hee Han²

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- UpT-13 Data Prefetching Using Cross Layer-Based Estimation of Integrated Message Handover Time for Seamless Mobile Multimedia Services
Hyo-Soon Kim¹, Byeong-hee Roh
Graduate School of Information and Communication, Ajou University
San5 Wonchon-dong, Youngtong-Gu, Suwon, 443-749, Korea
- UpT-14 Design and implementation of Virtual Reality System based on 3D-GIS for U-Eco City construction
Byung-wan Jo ¹, Seung-Hyun No ², Sei-Yung Oh ², Byung-Chul Shin ²,
Seong-Hee Han ²
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- UpT-15 Numerical Analysis of Different Broadcast Schemes for Multi-hop Sensor
S. Mehta and Kyung-Sup Kwak
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- UpT-16 QoS Model Design and Simulation of Mobile WiMAX System
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- UpT-17 Keyword Retrieval Method Using Priority Extracted from Character Property on a Textbook for Supporting Self-directed Learning
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- JpT-03 WIPI based Mobile Fitness Member Management Program
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- JpT-06 BICHUNMOO : Mobile Game Base on the GNEX SDK
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- JpT-11 Design and Implement Othello Game base on heuristic Algorithm
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- JpT-13 Design and Implement Finding The Same Pictures Based On Flash
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