

# Oral Session (Regular Papers)

**Feb. 27, 2013, 15:30 - 16:50**

**Session: Ad-Hoc & Sensor Networks – 1**

Chair: Seungcheon Kim (Hansung University, Korea)

ASN-1: Improved Relay Selection for MIMO-SDM Cooperative Communications

Duc Hiep Vu<sup>1</sup>, Quoc Trinh Do<sup>1</sup>, Xuan Nam Tran<sup>1</sup>, Vo Nguyen Quoc Bao<sup>2</sup>

<sup>1</sup>Le Quy Don Technical University, Vietnam, <sup>2</sup>Post and Telecommunications Institute of Technology, Vietnam

ASN-2: Design of Parallel Pipelined Algorithm for Field Arithmetic Architecture Based on Cellular Array

Kee-Won Kim<sup>1</sup>, Jun-Cheol Jeon<sup>2</sup>

<sup>1</sup>Dankook University, Korea, <sup>2</sup>Kumoh National Institute of Technology, Korea

ASN-3: A Study of Fire Refuge Guide Simulator Based on Sensor Networks

Jun-Pill Boo, Sang-Chul Kim<sup>2</sup>, Dong-Hwan Park<sup>3</sup>, Hyo-Chan Bang<sup>3</sup>, and Do-Hyeun Kim<sup>1</sup>

<sup>1</sup>Jeju National University, Korea, <sup>2</sup>Kookmin University, Korea, <sup>3</sup>ETRI, Korea

ASN-4: An Energy Efficient Reliability Scheme for Event Driven Service in Wireless Sensor Actuator Networks

Seungcheon Kim

Hansung University, Korea

**Feb. 28, 2013, 09:30 - 10:50**

**Session: Ad-Hoc & Sensor Networks – 2**

Chair: Huu Thanh Nguyen (Hanoi University of Science and Technology, Vietnam)

ASN-5: A Practical Adaptive Scheme for Enhancing Network Stability in Mobile Ad-hoc Wireless Networks

Le The Dung, Sue Hyung Ha, Beongku An

Hongik University, Korea

ASN-6: Freshness Preserving Hierarchical Key Agreement Protocol over Hierarchical MANETs

Hyunsung Kim

Kyungil University, Korea

ASN-7: A Symmetric Hierarchical Clustering Related to the Sink Position and Power Threshold for Sensor Networks

Joongjin Kook

KETI, Korea

ASN-8: Efficient and Reliable GPS-based Wireless Ad Hoc for Marine Search and Rescue System

Ta Duc-Tuyen<sup>1</sup>, Tran Duc-Tan<sup>1</sup>, Do Duc Dung<sup>2</sup>

<sup>1</sup>VNU University of Engineering and Technology, Vietnam, <sup>2</sup>Samsung Mobile R&D Center, Samsung Vietnam

**Feb. 28, 2013, 13:20 - 14:40**

**Session: Ad-Hoc & Sensor Networks – 3**

Chair: Beongku An (Hongik University, Korea)

ASN-9: A Geomulticast Routing Protocol based on Route Stability in Mobile Ad-hoc Wireless Networks

Sue Hyung Ha, Le The Dung, and Beongku An

Hongik University, Korea

ASN-10: RFID-based Indoor Location Recognition System for Emergency Rescue Evacuation Support

Dae-Man Do, Maeng-Hwan Hyun, Young-Bok Choi

Tongmyong University, Korea

ASN-11: Energy Efficient Wireless Sensor Network Design and Simulation for Water Environment Monitoring

Nguyen Thi Hong Doanh, Nguyen Tuan Duc

HCM international University, Vietnam

ASN-12: Analysis of Energy Consumption in Edge Router with LPI for green OBS Networks

Wonhyuk Yang, Mohamed A. Ahmed, Ki-Beom Lee, Young-Chon Kim

Chonbuk National University, Korea

**Feb. 28, 2013, 15:40 - 17:00**

**Session: Ad-Hoc & Sensor Networks – 4**

Chair: Truong Vu Bang Giang (University of Engineering and Technology, VNU, Vietnam)

ASN-13: Overview of Three and Four-Dimensional GIS Data Models

Tuan Anh Nguyen Gia, Phuoc Vinh Tran, Duy Huynh Khac

Hung Vuong University, Vietnam

ASN-14: A Study of Algorithm Comparison Simulator for Energy Consumption Prediction in Indoor Space

Nan Chen, Do-Hyeun Kim

Jeju National University, Korea

ASN-15: Performance Evaluation of EPON-based Communication Network Architectures for Large-Scale Offshore Wind Power Farms

Mohamed A. Ahmed<sup>1</sup>, Won-Hyuk Yang<sup>1</sup>, Young-Chon Kim<sup>1,2</sup>

<sup>1</sup>Chonbuk National University, Korea, <sup>2</sup>Corresponding author, Smart Grid Research Center, Korea

ASN-16: A Deployment of RFID for Manufacturing and Logistic

Patcharaporn Choeyesuan, Somsak Choomchuay

King Mongkut's Institute of Technology Ladkrabang, Thailand

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**Feb. 28, 2013, 09:30 - 10:50**

**Session: Communication & Networks – 1**

Chair: Hyunsung Kim (Kyungil University, Korea)

CaN-1: Blind beamforming using the MCMA and SAG-MCMA algorithm with MUSIC algorithm

Yongguk Kim, Heung-Gyoon Ryu

Chungbuk National University, Korea

CaN-2: Performance Analysis of Digital Retrodirective Array Antenna System in Presence of Frequency Offset

Junyeong Bok, Heung-Gyoon Ryu,

Chungbuk National University, Korea

CaN-3: Topology Information based Spare Capacity Provisioning in WDM Network

Hoyoung Hwang, Seungcheon Kim

Hansung University, Korea

CaN-4: Optimal Channel Sensing in Cognitive Radio Network with Multiple Secondary Users

Heejung Yu  
Yeungnam University, Korea

**Feb. 28, 2013, 13:20 - 14:40**

**Session: Communication & Networks – 2**

Chair: Jinhong Kim (Hansung University, Korea)

CaN-5: Single-Feed Wideband Circularly Polarized Antenna for UHF RFID reader

Pham HuuTo, B.D. Nguyen, Van-Su Tran, Tram Van, Kien T. Pham  
HCM international university, Vietnam

CaN-6: Automatic Tracking Angle of Arrival of Bandpass Sampling OFDM Signal by MUSIC Algorithm

Xin Wang, Heung-Gyoon Ryu  
Chungbuk National University, Korea

CaN-7: A White-List based Security Architecture (WLSA) for the Safe Mobile Office in the BYOD Era

Jaeho Lee<sup>1</sup>, Yongjin Lee<sup>1</sup>, Seungcheon Kim<sup>2</sup>  
<sup>1</sup>NIA, Korea, <sup>2</sup>Dept. Of Information and Communication Eng. Hansung Univ, Korea

CaN-8: Experimental Evaluation of WBAN Antenna Performance for FCC Common Frequency Band with Human Body

Musleemin Noitubtim, Chairak deepunya, Sathaporn Promwong  
King Mongkut's Institute of Technology Ladkrabang, Thailand

**Feb. 28, 2013, 15:40 - 17:00**

**Session: Communication & Networks – 3**

Chair: Sathaporn Promwong (King Mongkut's Institute of Technology Ladkrabang, Thailand)

CaN-9: Performance Evaluation of UWB-BAN with Friis's Formula and CLEAN Algorithm

Krisada Koonchiang, Dissakan Arpasilp, Sathaporn Promwong  
King Mongkut's Institute of Technology Ladkrabang, Thailand

CaN-10: Performance Improvements using Upgrading Precedences in MIL-STD-188-220 Standard

Sewon Han<sup>1</sup>, Byung-Seo Kim<sup>2</sup>  
<sup>1</sup>Korea Radio Promotion Association, Korea, <sup>2</sup>Hongik University, Korea

CaN-11: A User-Data Division Multiple Access Scheme

P. Niroopan, K. Bandara, Yeon-ho Chung  
Pukyong National University, Korea

CaN-12: VLC based Multi-hop Audio Data Transmission System

Le The Dung, Seungwan Jo, Beongku An,  
Hongik University, Korea

CaN-13: H.264 Video Delivery over Wireless Mesh Networks Based on Joint Adaptive Cross-Layer Mapping and MDCA MAC

Byung Joon Oh<sup>1</sup>, Ki Young Lee<sup>2</sup>  
<sup>1</sup>Link Communications. Ltd, USA, <sup>2</sup>University of Incheon, Korea

**Mar. 1, 2013, 09:00 - 10:20**

**Session: Communication & Networks – 4**

CaN-14: A Contents Service Profit Model based on the Quality of Experience and User Group Characteristics

Goo Yeon Lee, Hwa Jong Kim, Choong Kyo Jeong, Yong Lee

Kangwon National University, Korea

CaN-15: A novel low profile multi-band antenna for LTE handset

Nguyen Bao Ngoc, Nguyen Dinh Uyen, Tran Van Su, Nguyen Binh Duong, and Mai Linh

Vietnam National University Hochimin City - International University, Vietnam

CaN-16: Toward Hybrid Model for Architecture-Oriented Semantic Schema of Self-Adaptive System

Jinhong Kim, Seungcheon Kim

Hansung University, Korea

CaN-17: Digital Signature Schemes from Two Hard Problems

Binh V. Do, Minh H. Nguyen, Nikolay A. Moldovyan

Military Information Technology Institute, Vietnam

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**Feb. 27, 2013, 15:30 - 16:50**

**Session: Multimedia & Signal Processing – 1**

Chair: Eunjun Yoon (Kyungil University, Korea)

MSP-1: Design of Software-based Receiver and Analyzer System for DVB-T2 Broadcast systems

M.G. Kang<sup>1</sup>, Y.J. Woo<sup>1</sup>, K.T. Lee<sup>2</sup>, I.K. Kim<sup>3</sup>, J.S. Lee<sup>4</sup>, J.S. Lee<sup>5</sup>

<sup>1</sup>Hanshin University, Korea, <sup>2</sup>Korea Electronics Technology Institute, Korea, <sup>3</sup>Innodigital Co.LTD, Korea,

<sup>4</sup>Haesung Optics Co. Ltd, Korea, <sup>5</sup>LG CNS Co. Ltd, Korea

MSP-2: Implementation of Automatic Failure Diagnosis for Wind Turbine Monitoring System based on Neural Network

Ming-Shou An, Sang-June Park, Jin-Sup Shin, Hye-Youn Lim, Dae-Seong Kang

Dong-A University, Korea

MSP-3: Design and Implementation of a SoPC System for Speech Recognition

Tran Van Hoang<sup>1</sup>, Nguyen Ly Thien Truong<sup>1</sup>, Hoang Trang<sup>1</sup>, Xuan-Tu Tran<sup>2</sup>

<sup>1</sup>University of Technology, Vietnam, <sup>2</sup>VNU University of Engineering and Technology, Vietnam

MSP-4: New ID-based Proxy Signature Scheme with Message Recovery

Eun-Jun Yoon<sup>1</sup>, YongSoo Choi<sup>2</sup>, Cheonshik Kim<sup>3</sup>

<sup>1</sup>Kyungil University, Korea, <sup>2</sup>Korea University, Korea, <sup>3</sup>Sejong University, Korea

**Feb. 27, 2013, 15:30 - 16:50**

**Session: Multimedia & Signal Processing – 2**

Chair: Vu Ha Le (University of Engineering and Technology, VNU, Vietnam)

MSP-5: Real time Video Implementation on FPGA

Pham Minh Luan Nguyen, Sang Bock Cho

University of Ulsan, Korea

MSP-6: A Filter Selection Method in Hard Thresholding for Compressed Image Sensing

Phuong Minh Pham, Khanh Quoc Dinh, and Byeungwoo Jeon

Sungkyunkwan University, Korea

MSP-7: Recovery Algorithm for Compressive Image Sensing with Adaptive Hard Thresholding

Viet Anh Nguyen, Byeungwoo Jeon

Sungkyunkwan University, Korea

MSP-8: Comparison between SVM and Back Propagation Neural Network in building IDS

Nguyen Dai Hai, Nguyen Linh Giang

Hanoi University of Science and Technology, Vietnam

ITC-13: Survival Adaptive Training Based on AUV for Stocked Fish

Yong-Kug Pyeon<sup>1</sup>, Jun-Seok Lim<sup>2</sup>

<sup>1</sup>Gangwon College, Korea, <sup>2</sup>Sejong University, Korea

**Feb. 28, 2013, 9:30 - 10:50**

**Session: Multimedia & Signal Processing – 3**

Chair: Linh-Trung Nguyen (University of Engineering and Technology, VNU, Vietnam)

MSP-9: Facial Expression Recognition using Extended Local Binary Patterns of 3D Curvature

Sung Yong Chun<sup>1</sup>, Chan-Su Lee<sup>1</sup>, Sang-Heon Lee<sup>2</sup>

<sup>1</sup>Yeungnam University, Korea, <sup>2</sup>Daegu Gyeongbuk Institute of Science & Technology, Korea

MSP-10: Estimation Value for Three Dimension Reconstruction

Tae-Eun Kim

Namseoul University, Korea

MSP-11: Gesture Recognition Algorithm using Morphological Analysis

Tae-Eun Kim

Namseoul University, Korea

MSP-12: Omnidirectional Object Recognition based Mobile Robot Localization

Sungho Kim<sup>1</sup>, In So Kweon<sup>2</sup>

<sup>1</sup>Yeungnam University, Korea, <sup>2</sup>KAIST, Korea

**Feb. 28, 2013, 13:20- 14:40**

**Session: Multimedia & Signal Processing – 4**

Chair: Dohyeun Kim (Jeju National University, Korea)

MSP-13: Gender Classification Using Faces and Gaits

Hong Quan Dang, Intaek Kim, YoungSung Soh

Myongji University, Korea

MSP-14: Follower Classification Through Social Network Analysis in Twitter

Jae-Wook Seol, Kwang-Yong Jeong, Kyung-Soon Lee

Chonbuk National University, Korea

MSP-15: Age-group Classification for Family Members Using Multi-layered Bayesian Classifier with Gaussian Mixture Model

Chuhoo Yi<sup>1</sup>, Seungdo Jeong<sup>2</sup>, Kyeong-Soo Han<sup>3</sup>, Hankyu Lee<sup>3</sup>

<sup>1</sup>Hanyang University, Korea, <sup>2</sup>Hanyang Cyber University, Korea, <sup>3</sup>ETRI, Korea

MSP-16: Sample adaptive offset parallelism in HEVC

Eun-kyung Ryu, Jung-hak Nam, Seon-oh Lee, Hyun-ho Jo, and Dong-gyu Sim

Kwangwoon University, Korea

MSP-17: The Development of Privacy Telephone Sets in Encryption System against Eavesdropping

Seok-Pil Lee<sup>1</sup>, Eui-seok Nahm<sup>2</sup>  
<sup>1</sup>Sangmyung University, Korea, <sup>2</sup>Far East University, Korea

**Feb. 28, 2013, 15:40- 17:00**

**Session: Multimedia & Signal Processing – 5**

Chair: Soonyong Chun (Dongyang University, Korea)

MSP-18: Enhancing utilization of integer functional units for high-throughput floating point operations on coarse-grained reconfigurable architecture

Manhwee Jo, Kyuseung Han, Kiyoungh Choi  
Seoul National University, Korea

MSP-19: An Initial Quantization Parameter Decision Method Based on Frame Complexity with Multiple Objectives of GOP for Rate Control of H.264

Yalin Wu, Sun-Woo Ko  
Jeonju University, Korea

MSP-20: Implementation of Improved Census Transform Stereo Matching on a Multicore Processor

Jae Chang Kwak, Tae Ryong Park, Yong Seo Koo, Kwang Yeob Lee  
Seo Kyeong University, Korea

MSP-21: Implementation of Miniaturized Automotive Media Platform with Vehicle Data Processing

Sang Yub Lee, Sang Hyun Park, Duck Keun Park, Jae Kyu Lee, Hyo Sub Choi  
KETI, Korea

**Mar. 1, 2013, 09:00 - 10:20**

**Session: Multimedia & Signal Processing – 6**

Chair: Xuan Nam Tran (Le Quy Don Technical University, Vietnam)

MSP-22: An Improved Double Delta Correlator For BOC Signal Tracking in GNSS Receivers

Hung Pham-Viet, Chien Dao-Ngoc, Khang Nguyen-Van  
Hanoi University of Science and Technology, Vietnam

MSP-23: On Channel Capacity of Two-Way Multiple-hop MIMO Relay System with Specific Access Control

Pham Thanh Hiep<sup>1</sup>, Nguyen Huy Hoang<sup>2</sup>, Ryuji Kohno<sup>1</sup>  
<sup>1</sup>Yokohama National University, Japan, <sup>2</sup>Le Quy Don Technical University, Vietnam

MSP-24: Development of Compact Microphone Array for Direction-of-Arrival Estimation

Trinh Quc Vo, Udo Klein  
International University, VNU – HCMC, Vietnam

MSP-25: Anomaly Detection with Multinomial Logistic Regression and Naive Bayesian

Nguyen Dai Hai, Nguyen Linh Giang  
HaNoi University of science and technology, Vietnam

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**Feb. 28, 2013, 09:30 - 10:50**

**Session: Control & Intelligent System – 1**

Chair: Changhyun Oh (Korea University, Korea)

CIS-1: Modeling and simulation an intelligent traffic-light system using multiagents technology

Tuyen T. T. Truong, Cuong H. Phan

CanTho University, Vietnam

CIS-2: A Numerical Approach to Solve Point Kinetic Equations Using Talor-Lie Series and the Adomian Decomposition Method

Hag-Tae Kim<sup>1</sup>, Ganduulga<sup>2</sup>, Dong Pyo Hong<sup>2</sup>, Kil To Chong<sup>2</sup>

<sup>1</sup>Korea Atomic Energy Research Institute, Korea, <sup>2</sup>Jeonbuk National University, Korea

CIS-3: Interpretation and Modeling of Change Patterns of Concentration based on EEG Signals

JungEun Lim<sup>1</sup>, SoonYong Chun<sup>2</sup>, BoHyeok Seo<sup>1</sup>

<sup>1</sup>Kyungpook National University, Korea, <sup>2</sup>Dongyang University, Korea

CIS-4: Design of Autonomic Nerve Measuring System using Pulse Signal

Un-Ho Ji, Soon-Yong Chun

DongYang University, Korea,

**Feb. 28, 2013, 13:20 - 14:40**

**Session: Control & Intelligent System – 2**

Chair: Yongho Kim (Korea National University of Transportation, Korea)

CIS-5: Semiconductor Monitoring System for Etching Process- Sang

Chul Kim

Kookmin University, Korea

CIS-6: Enhancing the robustness of fault isolation estimator for fault diagnosis in robotic systems

Ngoc-Bach Hoang, Hee-Jun Kang

University of Ulsan, Korea

CIS-7: Software-based Fault Detection/Recovery Technique for Cyber-Physical Systems

Jooyi Lee<sup>1</sup>, Ji Chan Maeng<sup>1</sup>, Byeonghun Song<sup>1</sup>, Hyunmin Yoon<sup>1</sup>, Taeho Kim<sup>1</sup>, Won-Tae Kim<sup>2</sup>, Minsoo Ryu<sup>1</sup>,

<sup>1</sup>Hanyang University, Korea, <sup>2</sup>ETRI, Korea

CIS-8: Regional CRL Distribution based on the LBS for Vehicular Networks

HyunGon Kim, MinSoo Kim, SeokWon Jung, JaeHyun Seo

Mokpo National University, Korea

**Feb. 28, 2013, 15:40- 17:00**

**Session: Control & Intelligent System – 3**

Chair: Xuan-Tu Tran(University of Engineering and Technology, VNU, Vietnam)

CIS-9: Study of Reinforcement Learning Based Dynamic Traffic Control Mechanism

Zheng Zhang<sup>1</sup>, Seung Jun Baek<sup>2</sup>, Duck Jin Lee<sup>2</sup>, Kil To Chong<sup>2</sup>

<sup>1</sup>Xian Jiaotong University, China, <sup>2</sup>Jeonbuk National University, Korea

CIS-10: Understanding and Extending AUTOSAR BSW for Custom Functionality Implementation

Taeho Kim, Ji Chan Maeng, Hyunmin Yoon, Minsoo Ryu,

Hanyang University, Korea

CIS-11: A Study of Vessel Deviation Prevention Scheme Using a Triangulation in a Seaway

Shu Chen<sup>1</sup>, Rashid Ahmad<sup>1</sup>, Byung-Gil Lee<sup>2</sup>, Byung-Doo Kim<sup>2</sup>, Do-Hyeun Kim<sup>1</sup>,

<sup>1</sup>Jeju National University, Korea, <sup>2</sup>ETRI, Korea

CIS-12: A Hybrid Intelligent Control Method in Application of Battery Management System

Ngoc Nguyen T. T, Franklin Bien,  
Ulsan National Institute of Science and Technology, Korea

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## Oral Session (Work-in-Progress Papers)

**Feb. 28, 2013, 9:30 - 10:50**

**Session: IT Convergence – 1**

Chair: Chi Hieu Ta(Le Quy Don Technical University, Vietnam)

ITC-1: Design of AC-DC Converter for LED Driver using Digital Sine-Signal Generator

Won Kyeong Park, Su Jin Lee, Hyun Sik Son, Han Jung Song

Inje University, Korea

ITC-2: Power factor correction circuit for LED applications

Van Ha Nguyen, Won Kyeong Park, Youngsu Park, Hanjung Song

Inje University, Korea

ITC-3: Three-phase clock driven chaos generator

JiChao Zhou<sup>1</sup>, Van Ha Nguyen<sup>1</sup>, Youngsu Park<sup>1</sup>, Han Jung Song<sup>2</sup>

<sup>1</sup>Inje University, Korea, <sup>2</sup>Chungcheong University, Korea

ITC-4: An Efficient Algorithm of Inter-Prediction Coding for H.264/AVC Encoders

Viet-Thang Nguyen, Xuan-Tu Tran, Ha Vu Le

VNU University of Engineering and Technology, Vietnam

**Feb. 28, 2013, 13:20 - 14:40**

**Session: IT Convergence – 2**

Chair: Kyutae Lee (Kongju National University, Korea)

ITC-5: Temperature analysis of the discrete time chaotic circuit

JiChao Zhou, Hanjung Song

Inje University

ITC-6: Quasi-Continuous Second-Order Sliding Mode Controller for Control of Robot Manipulators

Mien Van, Hee-Jun Kang

University of Ulsan, Korea

ITC-7: 2D Shear Wave Imaging Using Maximum Likelihood Ensemble Filter

Nguyen Thi Hao, Tran Thuy-Nga, Vu Dinh-Long, Tran Duc-Tan, Nguyen Linh-Trung

VNU University of Engineering and Technology, Vietnam

ITC-8: Two-phase Clock-driven Chaotic Oscillator using a Photodiode

Van Ha Nguyen, Jichao Zhou, Youngsu Park, Hanjung Song

Inje University, Korea

**Mar. 1, 2013, 9:00- 10:20**

**Session: IT Convergence – 3**

Chair: Nhat Thang Le(Post and Telecommunications Institute of Technology, Korea)

ITC-9: The Characteristics of Very Small Meander-line antenna for RFID use

Nguyen Quoc DINH

Le Quy Don Technical University, Vietnam

ITC-10: NECO Simulation of Reed-Solomon Like Subspace Network Code for Erasure Networks

Nguyen Thi Anh-Dao<sup>1</sup>, Tran Duc-Tan<sup>2</sup>, Huu-Tue Huynh<sup>2</sup>

<sup>1</sup>University of Technology and Logistics, Vietnam, <sup>2</sup>VNU University of Engineering and Technology, Vietnam

ITC-11: Performance of a Commercial white LED for VLC

Chang-Hyun Oh<sup>1</sup>, Kyu Tae Lee<sup>2</sup>, In Hoi Kim<sup>2</sup>

<sup>1</sup>Korea University, Korea, <sup>2</sup>Kongju National University, Korea

ITC-12: A Synchronous-to-Synchronous FIFO Architecture for Multi-synchronous Network-on-Chips

Thi-Thuy Nguyen, Xuan-Tu Tran

VNU University of Engineering and Technology, Vietnam

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## Poster Session (Work-in-Progress Papers)

**Feb. 28, 2013, 11:00 - 11:50**

**Session: IT Convergence Poster – 1**

Chair: Yongsoo Choi (Korea University, Korea)

ITCP-1: The Analysis of Power Problems and the Solutions in Rack Mount Volume Servers

Wonok Kwon

ETRI, Korea

ITCP-2: Analysis of a Band Pass Filter based Chua's circuit

Hyun-sik Son<sup>1</sup>, Won-kyeong Park<sup>1</sup>, Ja-hoon Na, Youngsu Park<sup>1</sup>, Han-jung Song<sup>1,2</sup>

<sup>1</sup>Inje University, Korea, <sup>2</sup>Chungcheong University, Korea

ITCP-3: A CMOS Single Chip Transmitter RF front-end for Unlicensed 2.4 GHz Band

KyeongHyo Lee, HyeonGon Kim

Mokpo University, Korea

ITCP-4: A single chip IR-UWB radar transceiver for ranging and moving target detection

Seok-kyun Han, Sigit Yuwono, Yunson Won, Sang-Gug, Lee

KAIST, Korea

ITCP-5: Design And Simulate High Power Amplifier For S-Band Radar

Tran Nam Hung, Mai Linh, Tran Van Su, Nguyen Dinh Uyen, Nguyen Binh Duong

VietNam National University HCM City, Vietnam

ITCP-6: Reflecting User's Diversity Tendency in Recommendation Systems

Sang-Chul Lee<sup>1</sup>, Jeongjin Song<sup>1</sup>, Young-Sup Hwang<sup>2</sup>, Sang-Wook Kim<sup>1</sup>

<sup>1</sup>Hanyang University, Korea, <sup>2</sup>Sunmoon University, Korea

ITCP-7: Selecting Similar Users in Collaborative Filtering

Sang-Chul Lee<sup>1</sup>, Yoon-Suk Kang<sup>1</sup>, Seihyun Jeong<sup>1</sup>, Min-Hee Jang<sup>1</sup>, Young-Sup Hwang<sup>2</sup>, Sang-Wook Kim<sup>1</sup>

<sup>1</sup>Hanyang University, Korea, <sup>2</sup>Sunmoon University, Korea

ITCP-8: Record Management Maximizing the Effect of Group Writes in Flash Memory Environment

Duck-Ho Bae<sup>1</sup>, Sang-Wook Kim<sup>1</sup>, Ji-Woong Chang<sup>2</sup>

<sup>1</sup>Hanyang University, Korea, <sup>2</sup>Korea Polytechnic University, Korea

ITCP-9: Efficient Team Formation in Expert Networks

Duck-Ho Bae, Byeongho Kang, Tae-Hoon Kim, Jong-Min Lee, Young-Sup Hwang, Sang-Wook Kim

Hanyang University, Korea

ITCP-10: Fast Generation Method for Computer-Generated Hologram

Hyunjun Choi<sup>1</sup>, Youngho Seo<sup>2</sup>, Dongwook Kim<sup>2</sup>

<sup>1</sup>Mokpo National Maritime University, Korea, <sup>2</sup>Kwangwoon University, Korea

ITCP-11: Enhancement for Precoding and Block Decision Feedback Equalisation Scheme for MIMO ISI Channels

Chi Hieu Ta

Le Quy Don Technical University, Vietnam

**Feb. 28, 2013, 17:10 - 18:00**

**Session: IT Convergence Poster – 2**

Chair: Hyunsik Ahn (Tongmyong University, Korea)

ITCP-12: Semantic Parsing of Sentence Based Cognitive System

Hyunsik Ahn

Tongmyong University, Korea

ITCP-13: Conversational Robot Motion Control Using a Hierarchical Model

HyunBum Ko, Hyunsik Ahn

Tongmyong University, Korea

ITCP-14: Emotional Expression Using Simplified OCC Model for Robots

Chang-Yong Jhun, Hyun-Bum Ko, Hyunsik Ahn

Tongmyong University, Korea

ITCP-15: Reed-Solomon-like Regenerating Code for Cloud Storage

Le Xuan-Thang, Tran Duc-Tan, Nguyen Linh-Trung

VNU University of Engineering and Technology, Vietnam

ITCP-16: A Study on the Economic Drive Characteristics based on Driving Test in Real Urban Road

HyunSuk Kim<sup>1</sup>, YoonSook Hwang<sup>1</sup>, DaeSub Yoon<sup>1</sup>, JeongAh Jang<sup>1</sup>, CheongHee Park<sup>2</sup>, Changhyun Jeong<sup>3</sup>  
<sup>1</sup>ETRI, Korea, <sup>2</sup>ChungNam National University, Korea, <sup>3</sup>Korea Automotive Technology Institute, Korea

ITCP-17: The Development of driving-Workload Management System based on Driver's Psychological Characteristics

Yoonsook Hwang, Daesub Yoon, Hyunsuk Kim, Kyong-Ho Kim

ETRI, Korea

ITCP-18: Snake Splitting Based on Vector for Boundary Extraction of Multiple Objects

Jae Young Hwang, JongWhan Jang

PaiChai University, Korea

ITCP-19: Optimum Location for Sensors in Fall Detection

Quoc T. Huynh<sup>1</sup>, Uyen D. Nguyen<sup>1</sup>, Su V. Tran<sup>1</sup>, Binh Q. Tran<sup>2</sup>

<sup>1</sup>International University, Vietnam, <sup>2</sup>Catholic University, America

ITCP-20: Combined Antenna Selection and Lattice Reduction Aided Detection for Multiuser STBC-OFDM Systems

Quang Duc Le<sup>1</sup>, Quoc Trinh Do<sup>2</sup>, Xuan Nam Tran<sup>2</sup>

<sup>1</sup>Institute of Information Technology, Vietnam, <sup>2</sup>Le Quy Don Technical University, Vietnam

ITCP-21: Applying MEMs Sensor and the Extended Kalman Filter on DsPIC for Realtime Estimating Attitude of an Object in Space Run

Le Duy Hieu, Bui Hong Hue, Tran Xuan Kien

Military Science and Technology Institute, Vietnam,

ITCP-22: Triangular Traffic Sign Detection – Dangerous and Narrow Turn

Mai Quang Long Binh, Tran Huu Phuc, Dao Thi Phuong

International University, Vietnam

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