

UbiCNS 2005 Program

**The first Korea/Japan Joint Workshop on Ubiquitous
Computing & Networking Systems 2005**

Date : June 9-10

Location : Jeju, Korea

Thursday(06/09/05)	
08:00 ~ 09:00	Registration
09:00 ~ 10:20	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;">Paper Session 1 Community Computing Technology 1 Session Chair : Minkoo Kim (Ajou University)</p> </div> <div style="width: 45%; text-align: center;"> <p>Poster preparation</p> </div> </div>
10:20 ~ 10:40	Coffee break
10:40 ~ 12:00	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;">Paper Session 2 uT Networks 1 Session Chair : Younghan Kim (Soongsil University)</p> </div> <div style="width: 45%; text-align: center;"> <p>Poster Session 1 Community Computing Technology Session Chair : Jai-Hoon Kim (Ajou University)</p> </div> </div>
12:00 ~ 13:00	Lunch
13:00 ~ 14:20	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;">Paper Session 3 Community Computing Application 1 Session Chair : Woontack Woo (GIST)</p> </div> <div style="width: 45%; text-align: center;"> <p>Poster Session 2 Community Computing Networks 1 Session Chair : Ki-Yeol Rju (Ajou University)</p> </div> </div>
14:20 ~ 14:40	Coffee break
14:40 ~ 16:00	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;">Paper Session 4 Context Awareness Session Chair : Jaeyoung Choi (Soongsil University)</p> </div> <div style="width: 45%; text-align: center;"> <p>Poster Session 3 Community Computing Application Session Chair : Young-Kil Kim (Ajou University)</p> </div> </div>
16:00 ~ 16:20	Coffee break
16:20 ~ 17:00	Invitation Lecture
17:00 ~ 18:00	Opening Ceremony
18:00 ~	Banquet & Concert

Friday(06/10/05)	
08:00 ~ 09:00	Registration
09:00 ~ 10:20	Paper Session 5 Community Computing Technology 2 Session Chair : Hee Yong Youn (SungKyunkwan University)
10:20 ~ 10:40	Coffee break
10:40 ~ 12:00	Paper Session 6 uT Networks 2 Session Chair : Japanese people
12:00 ~ 13:00	Lunch
13:00 ~ 14:20	Paper Session 7 Community Computing Application 2 Session Chair : Mikio Hasegawa (NIIT)
14:20 ~ 14:40	Coffee break
14:40 ~ 16:00	Paper Session 8 uT Technology 1 Session Chair : Hee Yong Youn (SungKyunkwan University)
16:00 ~ 16:20	Coffee break
16:20 ~ 17:00	Paper Session 9 uT Technology 2 Session Chair : Japanese people
17:00 ~ 18:00	Poster Arrangement

18:00 ~	
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1st Day (June 9)

08:00 ~ 09:00 Registration

09:00 ~ 10:20 Paper Session 1 (Community Computing Technology 1)

Session Chair : Minkoo Kim (Ajou University)

- NAMA-US: A Multi-Agent Community Computing Approach to Ad hoc Need Identification and Group Formation of Nomadic Community
Ohbyung Kwon, Keunho Choi (Kyunghee University)
- Device Collaboration for Ubiquitous Computing: Scenarios and Challenges
C Narayanaswami, MT Raghunath, MC Rosu (IBM T.J. Watson Research Center)
HK Jang, SE Jin, SY Kim, MC Lee, S Lee, YS Paik (IBM Ubiquitous Computing Lab)
- Autonomous Configuration of Smart Nodes in Ubiquitous Environment
Kil Jeon, Seong-Ju Chang and Min-Soo Hahn (Information and Communication University)
- Backup and Restore Method for Ubiquitous Devices
Masahiro Motobayashi (Hitachi, Ltd.)

10:20 ~ 10:40 Coffee break

10:40 ~ 12:00 Paper Session 2 (uT Networks 1)

Session Chair : Younghan Kim (Soongsil University)

- A Synchronization Technique for OFDM Systems with Smart Antenna
Kyu In Lee, Dong Han Kim (Chung-Ang University), Jae Young Ahn (ETRI), and Yong Soo Cho (Chung-Ang University)
- Adaptive Transmission Techniques for Ubiquitous Personal Area Networks with Multiple Antennas
Myung-Sun Baek, So-Young Yeo, Mi-Jeong Kim, Young-Hwan You, and Hyoung-Kyu Song (Sejong University)
- Efficient Packet Forwarding Strategies Via Pricing In Wireless Ad Hoc Network
Mingmei Li (The Graduate University For Advanced Studies), Eiji Kamioka, and Shigeki Yamada (National Institute of Informatics)
- An unbalanced and distributed clustering algorithm – UBDC
EunHyoung Chu, Tsunenori Mine, Makoto Anamiya (Kyushu University)

10:20 ~ 12:00 Poster Session 1 (Community Computing Technology)

Session Chair : Jai-Hoon Kim (Ajou University)

- 1) SSR (Smart Sleep Recognizer) : Making Decision Based on Probability of User's Intension
Dong-Wook Lee, Soung-Hun You, We-Duke Cho, and Jai-Hoon Kim (Ajou University)
- 2) Implementation of PLC Home Network System based on Embedded Linux
Kyung-Hwan Cha, Yu-Seok Hyun, Jong-Jin Yoon (Dongseo University)
- 3) An Inter-working Processing System for heterogeneous hierarchical wireless sensor networks
Sea-Young Ahn (Korea University), Kang-Ho Woon, Seong-Dong Kim (Korea Electronics Technology Institute), We-Duke Cho (Center of Excellence in Ubiquitous Computing & Network-CUCN), and Sun-Shin An (Korea University)
- 4) A Zone Networking Architecture based on Zone Masters for Mobile Ad-Hoc Wireless Networks
Namhi Kang, Ilkyun Park and Younghan Kim (Soongsil University)
- 5) Ontology-based High Level Event Subscription Method for RFID Middleware
Jong-Yun Jung, Ki-Yeol Ryu, Jung-Tae Lee (Ajou University)
- 6) A Middleware Architecture for Community Computing with Intelligent Agents
Seungwok Han and Hee Yong Youn (Sungkyunkwan University)
- 7) Autonomic Distributed Adaptive Middleware (ADAM)
Kwang-Hoon Choi, Jai-Hoon Kim (Ajou University), and Young-Bae Ko, Hee Yong Youn (Sungkyunkwan University), We-Duke Cho (Center of Excellence in Ubiquitous Computing & Network-CUCN)
- 8) Group Reconfiguration for Community Computing
Jae-Hee Yoon, Jai-Hoon Kim (Ajou University)
- 9) GreenWalker : connecting biotope field information with three layer image data format using GPS of F505i
YoungJoo LEE, Ruo Ando (Keio University)

12:00 ~ 13:00 Lunch

13:00 ~ 14:20 Paper Session 3 (Community Computing Application 1)

Session Chair : Woontack Woo (GIST)

- A Rule-based System for Sense-and-Respond Telematics Applications
SangWoo Lee (IBM Ubiquitous Computing Laboratory), Jonathan Munson (IBM T.J.

Watson Research Center), DaeRyung Lee (IBM Ubiquitous Computing Laboratory), Gerry Thompson (IBM T.J. Watson Research Center), JungSun Park (IBM Ubiquitous Computing Laboratory)

- COCOLAB: Supporting Human Life in Ubiquitous Environment by Community Computing
Sounghun You, Jaedong Choi, Gil Heo, Dongsoon Choi, Heejung Park, Hyeonsook Kim, Weduke Cho (Center of Excellence for Ubiquitous Computing & Networking)
- Experiences on Building Applications, Services, and System Infrastructures for Ubiquitous Computing
Eiji Tokunaga, Kaori Fujinami, Tatsuo Nakajima (Waseda University)
- A Study on the Energy Consumption of Cluster-based Multi-Hop Wireless Network
Yuki Miyagoshi, Shigeru Teruhi, Shuichi Yoshino, Masashi Shimizu (NTT Inc.)

14:20 ~ 14:40 Coffee break

13:00 ~ 14:40 Poster Session 2 (Community Computing Networks 1)

Session Chair : Ki-Yeol Rju (Ajou University)

- 1) Enhancing Routing Protocol with Memory in Mobile Ad Hoc Networks
Yongjun Dai, Changhee Joo, and Saewoong Bahk (Seoul National University)
- 2) A Study on Self-organizing Wireless Ad-hoc network for High-rate Multimedia communication
Jin-hee Park, Jin-woong Cho (Korea Electronics Technology Institute), We-duke Cho (Center of Excellence for Ubiquitous Computing & Networking)
- 3) Dynamic Acknowledgement for the Energy Efficiency of the High-rate Wireless PAN
Byungjoo Lee, Seung Hyong Rhee, WoongChul Choi, Kwangsue Chung (Kwangju University), Jang-Yeon Lee, Jin-Woong cho (Korea Electronics Technology Institute) and We-Duke Cho (Waseda University)
- 4) An Efficient Routing Protocol for the Hybrid Wireless Networks
Seyoung Lim and Myungsik Yoo (Soongsil University)
- 5) A Robust Authentication Mechanism Allowing Dynamic Position of Sensors for Wireless Sensor Network
Miyoun Yoon, KwangKyum Lee (Soongsil University), Kyoung-hwa Do (Ministry of Government Administration), Yongtae Shin, Moonseog Jun (Soongsil University)
- 6) A Simple Service Discovery and Delivery Protocol for Ubiquitous Environments
Byong-In Lim, Seung-Hyun Lee, Seung-Jae Song and Dong-Ryeol Shin (Sungkyunkwan University)
- 7) A Wireless Body Sensor Network Platform for Ubiquitous Health Care

Young-Dong Lee, Do-Un Jeong and Wan-Young Chung (Dongseo University)

8) Dynamic Wireless-path Selection Control

Shigeru Ueda, Hisao Kumai (Sharp Corporation)

9) Flexible Network System for Ubiquitous Computing Using Fabric Material

Masashi Toda (Future University-Hakodate), Junichi Akita (Kanazawa University), Kunio Iwata (Future University-Hakodate)

10) Service Interaction Issues on Ubiquitous Home Networks

Shin-Young Lim, Eui-Hyun Paik, and Kwang-Roh Park (ETRI)

14:40 ~ 16:00 Paper Session 4 (Context Awareness)

Session Chair : Jaeyoung Choi (Soongsil University)

- Unified Context Describing User-Centric Situation: Who, Where, When, What, How and Why

Seiie Jang and Woontack Woo (GIST.)

- Context aware service control based on personal history

Eiji Kobayashi (NTT Corporation), Masanori Ogawara (NTT Comware Corporation), Ikuo Yoda (NTT Corporation)

- Design of a Ubiquitous Learning Support System based on Behavior Analysis

Zixue Cheng et al, Shengguo Sun, Mizuo Kansen, Tongjun huang (The University of Aizu)

- Proposal of Ambient Communication using Context Awareness Technology

Kazunari Takahashi, Daisuke Yamada, Tadaaki Arimura, Tatsuta Nakamura, Shigetoshi Yokoyama (NTT DATA CORPORATION)

16:00 ~ 16:20 Coffee break

14:40 ~ 16:20 Poster Session 3 (Community Computing Application)

Session Chair : Young-Kil Kim (Ajou University)

- 1) Attentive Probe: Design of 3D Geometry-based Information Visualization Tool for ActiveHome

Hyoungjin Kim, Kyoung Shin Park and Minsoo Hahn (Information & Communications University)

- 2) Effective Information Gathering of Predictable Agent System over Wireless Sensor Networks

Young-Min Ji (Korea University), Kang-Ho Woon, Sung-Dong Kim (Korea Electronics Technology Institute), Dong-Hyun Chae and Sun-Shin An (Korea University)

- 3) Development of a Ubiquitous Emergency Healthcare System by Implementing Real-time Connectivity between a Cardiac Patient and a Medical Doctor

HyunSoon Ahn, SeungHan Lee, SangKyung Lee (ISU-UBCare Co., Ltd.)

4) Introduction of 'ubiHome' Testbed

Seiie Jang, Choonsung Shin, Yoosoo Oh, and Woontack Woo (GIST)

5) Half-mirror system based on face-gesture Interface in Ubiquitous computing environment

Young-Joon Kwon, Dae-Jin Kim and Zeungnam Bien (KAIST)

6) Developing the Design Guideline to Evaluate Quality of Life in Smart Home

Ilju Lee and Jinwon Choi (Yonsei University)

7) Physiological signal sensing on acupoints for emotion recognition

Ahyoung Choi and Woontack Woo (GIST)

8) Invisible DNA Barcode System for Ubiquitous Application

Jin-Ho Choy, Sang-Tae Kim, Sung-Su Park (Ewha Womans University)

9) The 3D Shape Information Tags for Recognizing Objects in Real World

Yutaka Yanagisawa, Kaoru Hiramatsu, Takashi Hattori, Tatsumi Yamada, Tsuyoshi Okadome (NTT Corporation)

10) Technical Road Map for the U-Construction Process

Mu-Wook Pyeon (Kon-Kuk University), Il-Pyo Hong (Korea Institute of Construction Technology), Jin-Nyoung Lee (Kon-Kuk University)

16:20 ~ 17:00 Invitation Lecture

17:00 ~ 18:00 Opening Ceremony

18:00 ~ Banquet & Concert

2nd Day (June 10)

09:00 ~ 10:20 Paper Session 5 (Community Computing Technology 2)

Session Chair : Hee Yong Youn (SungKyunkwan University)

- A visual framework for monitoring and controlling distributed service components
Takahiro Kimura, Haruaki Tamada, Hiroshi Igaki, Masahide Nakamura, Ken-ichi Matsumoto (Nara Institute of Science and Technology)
- Ambient Browser: Web Browser for Daily Use
Satoshi nakamura, Mitsuru minakuchi (National Institute of Information and Communications Technology), Katsumi tanaka (Kyoto University)
- A framework for presentation and use of everyday interaction histories
Yoshinari Shirai, Kumiyo Nakakoji (NTT Corporation, University of Tokyo), Yasuhiro Yamamoto (University of Tokyo), Elisa Giaccard (University of Colorado)
- Document Based Context Aware Computing
Kazuki Yokoi, Tsubasa Unemura (Ritsumeikan University), Shigeo Fujiwara (Advanced Solution R&D Center) , Nobuhiko Nishio (Ritsumeikan University)

10:20 ~ 10:40 Coffee break

09:00 ~ 10:40 Poster Session 4 (Context Awareness)

Session Chair : Won-Sik Yoon (Ajou University)

- 1) Situation-Aware based Digital Appliance Control System for Smart Home
Hee-Jung Park, Gil Heo, We-Duke Cho (Ajou University)
- 2) Support of Context-awareness in Ubiquitous Networks using Smart Packet
Jaeduck Choi, Hyosun Roh, Souhwan Jung, Younghan Kim (Soongsil University)
- 3) User Profile Management for Context-aware Applications in ubiHome
Youngjung Suh and Woontack Woo (GIST)
- 4) ubi-UCAM 2.0: A Unified Context-aware Application Model for Ubiquitous Computing Environments
Yoosoo Oh, Choonsung Shin, Seije Jang and Woontack Woo (GIST)
- 5) A Context Model based on Ontology in Ubiquitous Computing Environment
Kim Eunhoe and Choi Jaeyoung (Soongsil University)
- 6) Vr-UCAM2.0: A Unified Context-aware Application Model for Virtual Environments
Sejin Oh, Youngho Lee and Woontack Woo (GIST)

- 7) A Novel Approach for Conflict Resolution in Multi-Contexts Situation
Keonsoo Lee, Minkoo Kim (Ajou University)
- 8) Conflict Resolution based on User Preference and Service Profile for Context-aware Media Services
Choonsung Shin and Woontack Woo (GIST)
- 9) MAGIC-Surfaces: Prototyping Location-aware Smart Building Materials
Youhei Nishizawa, Masateru Minami (Shibaura Institute of Technology), Hiroyuki Morikawa, Tomonori Aoyama (The University of Tokyo)
- 10) Automatic configuration of sensor locations by tracking human movement
Jin Hoshino, Kenichi Yamazaki (NTT DoCoMo, Inc.)
- 11) Context based AR Interaction Table using Tangible Objects
Youngmin Park and Woontack Woo (GIST)

10:40 ~ 12:00 Paper Session 6 (uT Networks 2)

Session Chair : Japanese people

- RFID Privacy Enhanced Protocol for Library Operation
Gembu morohashi, Shingo kinoshita, Fumitaka hoshino (NTT Corporation)
- Modeling and evaluation of trace-ability in ubiquitous networking services
Masafumi Katoh (Fujitsu Limited), Tsuguo Kato, Takafumi Chujo (Fujitsu Laboratories)
- Ubiquitous Networking System for Seamless Communications across Heterogeneous Networks and Devices
Masugi Inoue, Mikio Hasegawa (National Institute of Information and Communications Technology-NICT), Hiroyuki Morikawa (The University of Tokyo, National Institute of Information and Communications Technology-NICT)
- A Neighbor Discovery Method for Wireless Sensor Networks
Shigeru teruhi, Shuichi yoshino, Masashi shimizu (NTT Corporation)

10:40 ~ 12:00 Poster Session 5 (Community Computing Networks 2)

Session Chair : Young-Bae Ko (Ajou University)

- 1) A Study of Effective Interface between e-Trade platform and Information Systems of Trade Agencies
Seokyoung Back, Yongjin Park (Hanyang University)
- 2) A New Packet Scheduling Scheme for Improving Fairness in Wireless Sensor Network
Byunghun Song (Korea Electronics Technology Institute), Hyung Su Lee (Korea Electronics Technology Institute, Sungkyunkwan University), Hee Yong Youn (Sungkyunkwan University)

- 3) U1-chip: A simple wireless communication module for local service discovery
Yee-Loo foo, Yuichi Taguchi, Shunsuke saruwatari (The University of Tokyo), Hiroyuki Morikawa (The University of Tokyo, National Institute of Information and Communications Technology-NICT), Tomonori Aoyama (The University of Tokyo), Mikio Hasegawa, Masugi Inoue (National Institute of Information and Communications Technology-NICT)
- 4) Impact of Clock Skewness on Synchronized Sensor Clusters Operating with IEEE 802.15.4 MAC
Kenji Leibnitz, Naoki Wakamiya, Masayuki Murata (Osaka University)
- 5) Weighting strategy in state space problem for the DS-CDMA code acquisition
Ruo Ando, Yoshiyasu Takefuji (Keio University)
- 6) u-Con: A Smart Space Remote Control System
Hidetoshi Tokuda, Gen Takahashi, Masaya Kadota, Masayuki Iwai, Hideyuki Tokuda (Keio University)
- 7) AIR: Ambient/Abstract/Atmosphere-like Information Representator
Atsushi Kanda, Yoshihiro Kawahara, Hiroyuki Morikawa, Tomonori Aoyama (The University of Tokyo)
- 8) Location Error Compensation for a Virtual World Application Using Mobile Phones with GPS
Hiroyuki Tarumi (Kagawa University, SpaceTag, Inc), Takatoshi Hori (Kagawa University)
- 9) Autonomic Network Management for u-Zone Network
Shafique Ahmad Chaudhry, Ali Hammad Akbar, Faysal Adeem Siddiqui, and Won-Sik Yoon (Ajou University)

12:00 ~ 13:00 Lunch

13:00 ~ 14:20 Paper Session 7 (Community Computing Application 2)

Session Chair : Mikio Hasegawa (NIIT)

- Information-offering method in personal communication
Miho Nakamura , Eri Sano , Yukihiro Usui , Osamu Mizuno (NTT Information Sharing Platform Laboratories)
- CatchMe: Multi-Camera Person Tracking System for Indoor Public Space
Akinori Komaki, Kohtake Naohiko, Kazunori Takashio, Tokuda Hideyuki (Keio University)
- Distributed and Cooperative Service Platform "UKARI-Kernel Plan for Networked Appliances
Tatsuya Yamazaki (National Institute of Information and Communications Technology-NICT), Atsushi Sawada(National Institute of Information and Communications Technology-NICT, Kyoto University), Toshikazu Nishimura (National Institute of

Information and Communications Technology-NICT, Ritsumeikan University), Masanori Takaoka (NEC Communication Systems), Yosuke Tajika (Toshiba Corporation), Michihiko Minoh (National Institute of Information and Communications Technology-NICT, Kyoto University)

- UIGI: A Unified Interaction Gesture Interface for Home Computing Environment
Shunsaku Yamazaki, Hideyuki Tokuday (Keio University)

14:20 ~ 14:40 Coffee break

13:00 ~ 14:40 Poster Session 6 (uT Technology)

Session Chair : Manpyo Hong (Ajou University)

- 1) The Effect of Privacy Policy to the Acceptance of Ubiquitous Computing Services
Ohbyung Kwon, Ji-hoon Kim (Kyunghee University)
- 2) Privacy-aware Service Mechanism for Ubiquitous Computing Environment
Song-hwa Chae, Gunhee Lee, Manpyo Hong (Ajou University)
- 3) wear-UCAM: A Toolkit for Wearable Computing
Dongpyo Hong and Woontack Woo (GIST)
- 4) Design of RFID Antennas in UHF Band
Hosung Choo, Jaeyul Choo (Hongik University), Ikmo Park (Ajou University), Yisok Oh (Hongik University), Youngkil Kim (Ajou University)
- 5) Toward an open telematics infrastructure
Wonil Lee, YoungJu Tak, Wanhee Byun, YoungWoo Pae (IBM Ubiquitous Computing Lab.)
- 6) Developing Design Requirements for Ubiquitous Technology-based Products and Services for the Smart Office
Mi-Yun Kim, Jin-Won Choi (Yonsei University)
- 7) The Development of 13.56MHz RFID Reader Using Embedded System and Wireless LAN
Gi-Hyun Hwang, Won-Tae Jang, and Kyoung-Seek Lim (Dongseoh University)
- 8) RFID-based Middleware System for Providing Ubiquitous Information Service
Sewon Oh, Youngil Kim, Yongjoon Lee (Electronics and Telecommunications Research Institute)
- 9) Design of a Wearable Micro Info-Broadcasting System
Kenji Sasaki, Ushio Inoue, and Yoshito Tobe (Tokyo Denki University)
- 10) Profile Blog : Blog-based Life Log Viewer Capable of Integrating Dispersed User Profiles
Masaru Honjo, Daisuke Morikawa (KDDI Corporation), Akira Yamaguchi (ATR), Masayoshi Ohashi (KDDI Corporation)

11) An embedded intelligence model: Issues in the real-world empowered organizational computing

Toshihiko Yamakami (ACCESS)

12) Design of A-POC(Advanced Point of Care) System for COPD Patient's Tele-Monitoring and Emergency Measure

Mi-jung Lim, Ho-young Byun, Peom Park (Ajou University)

14:40 ~ 16:00 Paper Session 8 (uT Technology)

Session Chair : Hee Yong Youn (SungKyunkwan University)

- WindowActive: An Interactive House Window On Demand

Jae-Seon Lee, Kyoung-Shin Park, Min-Soo Hahn (Information and Communication University.)

- Indoor Orientation tracking method using ubiTrack

Woojin Jung and Woontack Woo (GIST)

- Proposal of Secure Easy Remote Access Technology: Softwire

Nobuyuki Enomoto, Hideo Yoshimi, Youichi Hidaka, Kazuo Takagi, Atsushi IWATA (NEC Corporation)

- Double-Decker RFID Tags -- Basic Structures and Applications

Shin-ichi Minato, Masaharu Yoshioka (Hokkaido University)

16:00 ~ 16:20 Coffee break

16:20 ~ 17:40 Paper Session 9 (uT Technology)

Session Chair : Japanese people

- Design and Application of GIS/LBS Technology for Developing Ubiquitous Environment

Sang-Hoon Lee, Tae-Hoon Kim and Jee-Hee Koo (Korea Institute of Construction Technology)

- Case with ubiquitous house designed from aspect of interior

Hiroyuki Yoshida (Daiwahouse Industry Co. LTD R&D division), Nobuhiko Nishio (Ritsumeikan University)

- Extended FACE Routing Protocol for Mobile Ad-Hoc Networks Author(s), Hideaki TAKAHASHI and Hiroaki HIGAKI

Hideaki Takahashi, Hiroaki Higaki (Tokyo Denki University)

- Development The UHF RFID Reader Platform Based on RISC Processor

Jong-Ho Kim (Digitalsys), We-Duke Cho (Center of Excellence in Ubiquitous Computing & Networking), Ho-Sung Choo (Hongik University) and Young-Kil Kim (Ajou University)