

PROGRAM SCHEDULE



February 12, 2017 (Sunday)	
11:00-12:00	Local Arrangement Meeting Chair: Sang Oh Park Haeundae Grand Hotel, Seminar Room
13:30-15:30	ICTPS & KISTI Steering Meeting Chair: Sang-Soo Yeo Haeundae Grand Hotel, Seminar Room
16:00-18:00	Conference Committees Meeting Chair: Yang Sun Lee Haeundae Grand Hotel, Seminar Room

February 13, 2017 (Monday)				
09:00-09:30	Registration (2 nd floor)			
09:30-10:50	1-A: Computing Platform Chair: Cho-Chin Lin Grand Ballroom A	1-B: Networking Platform Chair: Maria Rosario Rodavia Grand Ballroom B	1-C: Human & Media Platform Chair: Young-Ae Jung Studio-1	1-D: Convergence Platform Chair: Yanghoon Kim Studio-3
10:50-11:10	Coffee Break			
11:10-12:30	2-A: Computing Platform Chair: Maria Rosario Rodavia Grand Ballroom A	2-B: Networking Platform Chair: Dong-Hee Park Grand Ballroom B	2-C: Human & Media Platform Chair: Yanghoon Kim Studio-1	2-D: Networking Platform / Convergence Platform Chair: Junbeom Hur Studio-3
12:30-14:00	Lunch Grand Ballroom C			
14:00-15:10	Opening Remark & Invited Talk <i>On the Wireless Network Systems as a Key Enabling Technology for Smart Homes and Cities</i> by Dr. Mohammad S. Obaidat, Professor, Dept. of Computer & Information Science, Fordham University, USA Grand Ballroom A / Chair: Young-Ae Jung			
15:10-15:30	Coffee Break			
15:30-16:50	3-A: Computing Platform Chair: Jeongheon Kim Grand Ballroom A	3-B: CRET 2017 Chair: Young-Joo Jeon Grand Ballroom B	3-C: Convergence Platform Chair: Chun-Feng Liao Studio-1	3-D: MediSSec 2017 Chair: Mucheol Kim Studio-3
16:50-17:10	Coffee Break			
17:10-18:30	4-A: Computing Platform Chair: Jongsung Kim Grand Ballroom A	4-B: CRET 2017 Chair: Kyeong-Ouk Jeong Grand Ballroom B	4-C: CIA 2017 / SCA 2017 Chair: Jaehwa Chung Studio-1	4-D: MediSSec 2017 Chair: Yanghoon Kim Studio-3
19:00-20:30	Reception Party & Service Award Ceremony <i>(Casual Standing Party with delicious finger foods and drinks)</i> Emerald Hall (6th floor) / Chair : Young-Ae Jung			

1. A paper presentation should be made by one of authors of the paper, during a 20 minute time slot (15 minutes for the presentation itself and 5 minutes for Q/A).
2. All speakers of each session should meet the session chair at its room 10 minutes before the session begins.

February 14, 2017 (Tuesday)				
09:00-09:30	Registration (2 nd floor)			
09:30-10:50	5-A: Human & Media Platform Chair: Mohamad Yusoff Alias Grand Ballroom A	5-B: Convergence Platform Chair: Jaehwa Chung Grand Ballroom B	5-C: SESIS 2017 Chair: Young-Gab Kim Studio-1	5-D: Computing Platform Chair: Young B. Park Studio-3
10:50-11:10	Coffee Break			
11:10-12:30	6-A: CIA 2017 Chair: Sanghyun Seo Grand Ballroom A	6-B: Convergence Platform Chair: Mohamad Yusoff Alias Grand Ballroom B	6-C: SCA 2017 Chair: Jeongheon Kim Studio-1	6-D: Computing Platform / MediSSec 2017 Chair: Murali Subramaniyam Studio-3
12:30-14:00	Lunch Grand Ballroom C			
14:00-15:10	Invited Talk <i>Humanities in Software Engineering Part II: Open source movement and Taoism</i> by Mr. Guenjun Yoo, Lead Solutions Engineer for Asia Pacific, PERFORCE Software Grand Ballroom A / Chair: Seungmin Rho			
15:10-15:30	Coffee Break			
15:30-16:50	7-A: CIA 2017 Chair: Sanghyun Seo Grand Ballroom A	7-B: Convergence Platform Chair: Young-Gab Kim Grand Ballroom B	7-C: SCA 2017 Chair: Sang Un Ahn Studio-1	7-D: Interdisciplinary Session 1 Chair: Sang-Soo Yeo Studio-3
16:50-17:10	Coffee Break			
17:10-18:30	8-A: CIA 2017 Chair: HangBae Chang Grand Ballroom A	8-B: Networking Platform / FSP 2017 Chair: Changhoon Lee Grand Ballroom B	8-C: SCA 2017 Chair: SangWook Bae Studio-1	8-D: Interdisciplinary Session 2 Chair: Sang-Soo Yeo Studio-3
19:00-20:30	Conference Banquet (with Best Paper Award Ceremony) Grand Ballroom C / Chair: Lee Won Park			

February 15, 2017 (Wednesday)				
09:00-09:30	Registration (2 nd floor)			
09:30-10:50	9-A: Convergence Platform / CIA 2017 Chair: Sanghyun Seo Grand Ballroom A	9-B: Computing Platform / SCA 2017 Chair: Sang Oh Park Grand Ballroom B	9-C: Interdisciplinary Session 3 Chair: Yang-Sun Lee Studio-1	9-D: Interdisciplinary Session 4 Chair: Sang-Soo Yeo Studio-3

1. A paper presentation should be made by one of authors of the paper, during a 20 minute time slot (15 minutes for the presentation itself and 5 minutes for Q/A).
2. All speakers of each session should meet the session chair at its room 10 minutes before the session begins.

TECHNICAL SCHEDULE FOR PLATCON-17

Sunday, February 12

11:00 - 12:00 *Local Arrangement Meeting*

Chair: Sang Oh Park (KISTI, Korea)

13:30 - 15:30 *ICTPS & KISTI Steering Meeting*

Chair: Sang-Soo Yeo (Mokwon University, Korea)

16:00 - 18:00 *Conference Committees Meeting*

Chair: Yang Sun Lee (Mokwon University, Korea)

Monday, February 13

09:00 - 09:30 *Registration open (2nd floor)*

2nd floor, Haeundae Grand Hotel

09:30 - 10:50 *1-A: Computing Platform*

Room: Grand Ballroom A

Chair: Cho-Chin Lin (National Ilan University, Taiwan)

Performance Improvement of Dynamic Binary Analysis Tool, Triton

Wonil Pyo, Beomsu Hyeon, Yebyoul Son and Mun-Kyu Lee (Inha University, Korea)

Format String Bug Detection Using Memcheck

Yejin Yoon (University of INHA, Korea); Se-Hun Oh (Cyberone, Korea); Mun-Kyu Lee (Inha University, Korea)

The Design and Implementation of a KNN-based Dating Mobile Application

Jingbo An and Zhiyi Fang (Jilin University, P.R. China)

09:30 - 10:50 *1-B: Networking Platform*

Room: Grand Ballroom B

Chair: Maria Rosario Rodavia (Arellano University, Philippines)

Reservation-Based Cooperative Traffic Management Considering Turn Types at Intersection

Areeya Rubenecia and Myungwhan Choi (Sogang University, Korea); Hyo Hyun Choi (Inha Technical College, Korea)

Investigation and Improvement of Maximum Likelihood Channel Estimator in OFDM Systems

Khalid Mohamed and Mohamad Yusoff Alias (Multimedia University, Malaysia); Mardeni Roslee (MMU, Malaysia)

Study on MPTCP Enhancement by IP Routing for WebQoE Improvement

Yasuomi Muraki and Yoshihiro Ito (Nagoya Institute of Technology, Japan)

A Novel Approach for PAPR Reduction in OFDM-Based Visible Light Communications

Ayad Atiyah Abdulkafi (Multimedia University & Tikrit University, Malaysia); Mohamad Yusoff Alias and Yaseein Soubhi Hussein (Multimedia University, Malaysia)

09:30 - 10:50 1-C: Human & Media Platform

Room: Studio-1

Chair: Young-Ae Jung (Sun Moon University, Korea)

Construction of Human Reaction Information Measurement System Based on Color Environments

Su Chong Joo, Chang Won Jeong and Ji Eon Kim (Wonkwang University, Korea)

Skin Care Management Support System Based on Cloud Environments

Su Chong Joo, Chang Won Jeong, Ji Eon Kim and Si-Hyung No (Wonkwang University, Korea)

Pairing Social Issues and Scientific Solutions Based on Unstructured Data Analytics

Yoonsun Jin (Kyung Hee University, Korea); Namyoon Lee (Sungkyul University, Korea); Suhyeon Nam (Kyung Hee University, Korea); Ohbyung Kwon (Kyunghee University, Korea)

In-vehicle System Design - Considering Cognitive Characteristics of Elderly Drivers-

Seung Hee Hong (KRISS & ETRI, Korea)

09:30 - 10:50 1-D: Convergence Platform

Room: Studio-3

Chair: Yanghoon Kim (Far East University, Korea)

A Study on Elderly Disease Prediction Platform for Internet of Everything Environment

Jaehak Yu (ETRI, Korea); Seunghee Hong (KRISS, Korea); HongKyu Park (ETRI, Korea); Da mee Kim (KRISS & ETRI, Korea); Woongshik You, Sunjin Kim and Cheol Sig Pyo (ETRI, Korea); Se-Jin Park (KRISS, Korea)

Smart Emergency Medical Services Integrated with EMR-connected Wearable Devices

Yeongcheol Shin, Gibaek Nam and Eunjeong Park (Yonsei University College of Medicine, Korea); Taehwa Han (Yonsei University Health System, Korea); Hyuk-jae Chang (Yonsei University College of Medicine, Korea)

A Prototype for Assessing Cyber Security Maturity

Young In You, Jaehee Lee and Kyungho Lee (Korea University, Korea)

10:50 - 11:10 Coffee break

11:10 - 12:30 2-A: Computing Platform

Room: Grand Ballroom A

Chair: Maria Rosario Rodavia (Arellano University, Philippines)

Bounded-downtime Computation for Virtual Machine Live Migration Based on Memory Alternation Cross Reference

Cho-Chin Lin (National Ilan University, Taiwan); Zong-De Jian (Academia Sinica, Taiwan); Dong-Ye Xie (Nation Ilan University); Wei Ping Goh and Shyi-Tsong Wu (National Ilan University, Taiwan)

The Design and Implementation of the Residents-Workstation of Mobile HIS

Jingbo An and Zhiyi Fang (Jilin University, P.R. China)

Practical Data Outsourcing Framework with Provably Secure Deduplication in Untrusted Remote Storage

Dongyoung Koo (Korea University, Korea); Youngjoo Shin (National Security Research Institute, Korea); Junbeom Hur (Korea University, Korea)

11:10 - 12:30 2-B: Networking Platform

Room: Grand Ballroom B

Chair: Dong-Hee Park (Korea National University of Transportation, Korea)

Design of Millimeter-wave Monopole Yagi-Uda-Fed Waveguide Pyramidal Horn Antennas

Dong-Hee Park (Korea National University of Transportation, Korea)

An Implementation of Indoor Visible Light Communication System Using Simulink

Yaseein Soubhi Hussein and Mohamad Yusoff Alias (Multimedia University, Malaysia); Ayad Atiyah Abdulkafi (Multimedia University & Tikrit University, Malaysia)

On Findability Issues of Constrained Web of Things in a Smart Home Environment

Wen-Ting Cheah and Chun-Feng Liao (National Chengchi University, Taiwan)

11:10 - 12:30 2-C: Human & Media Platform

Room: Studio-1

Chair: Yanghoon Kim (Far East University, Korea)

Speech Emotion Recognition from Spectrograms with Deep Convolutional Neural Network

Abdul Malik Badshah, Jamil Ahmad, Nasir Rahim and Sung Wook Baik (Sejong University, Korea)

Genre-Based Movie Recommendation Algorithm

Tae-gyu Hwang and Sung-Kwon Kim (Chung-Ang University, Korea)

Implementation of a Personalized Beauty Web Magazine Using Mind Mining

Yujin Song, Yongjang Cho and Seungmin Rho (Sungkyul University, Korea)

11:10 - 12:30 *2-D: Networking Platform / Convergence Platform*

Room: Studio-3

Chair: Junbeom Hur (Korea University, Korea)

A Prediction Method Combining Open Data Keyword Analysis and Case-Based Reasoning

Yun Seon Kim (Handong Global University, Korea); Namyoon Lee (Sungkyul University, Korea); Ohbyung Kwon (Kyunghee University, Korea)

A Study on Deriving Checklist About Management Inspection of Internal Data Leakage Prevention Solutions

Jang-Su Park and Im-Yeong Lee (University of Soonchunhyang, Korea)

12:30 - 14:00 *Lunch*

2nd floor, Haeundae Grand Hotel Grand Ballroom C

14:00 - 15:10 *Opening Remark & Invited Talk*

On the Wireless Network Systems as a Key Enabling Technology for Smart Homes and Cities

by Dr. Mohammad S. Obaidat, Professor, Dept. of Computer & Information Science, Fordham University, USA

Room: Grand Ballroom A

Chair: Young-Ae Jung (Sun Moon University, Korea)

15:10 - 15:30 *Coffee break*

15:30 - 16:50 *3-A: Computing Platform*

Room: Grand Ballroom A

Chair: Jeongheon Kim (KISTI, Korea)

A Study on the Virtuous Circle Self-Learning Methods for Knowledge Enhancement

Jaehak Yu, Young Min Kim, SoonHyun Kwon, Kwihoon Kim, Nae-Soo Kim, Sunjin Kim and Cheol Sig Pyo (ETRI, Korea)

NCU-HA: A Lightweight HA System for Kernel-based Virtual Machine

Yen-Lin Lee, Min-Huang Ho, Aswin Suharsono, Yu-Chen Pan, Wei-Jen Wang and Deron Liang (National Central University, Taiwan)

Designing and Prototyping Utility Management Using Hybrid Wireless-Wired Network Technologies

P. Venkata Krishna (Sri Padmavati Mahila University, India); Mohammad S. Obaidat (Fordham University, USA); Sudip Misra (Indian Institute of Technology-Kharagpur, India); Sumanth Yenduri (Columbus State University, USA); Kuei-Fang Hsiao (Ming Chuan University, Taiwan)

15:30 - 16:50 **3-B: CRET 2017**

Room: Grand Ballroom B

Chair: Young-Joo Jeon (Mokwon University, Korea)

A Meta-analysis of Theme-based Integrated English Education Effects on English Skills

Jong-Keol Kim (Korea National University of Education, Korea); Jeong-ryeol Kim (Korea National University of Education, Elementary Education & Korea National University of Education, Korea)

Effects of L1 and L2 Glosses on Korean English Learners' Vocabulary Learning and Reading Comprehension: A Meta-Analysis

Je-Young Lee (Sehan University, Korea); Young-Joo Jeon (Mokwon University, Korea)

Instructional Strategies for ICT-based Storytelling Teaching Method

Hwa Seon Kim (Pai Chai University & College of Liberal Arts, Korea); Kyeong-Ouk Jeong (Hannam University, Korea)

Analysis of the Integrated Implementation into the Nuri Curriculum of Internet-Based Intercultural Exchange

JeeHyun Bae (Kyung-In Women's University, Korea)

15:30 - 16:50 **3-C: Convergence Platform**

Room: Studio-1

Chair: Chun-Feng Liao (National Chengchi University, Taiwan)

Developing Criteria for Invasion of Privacy by Personal Drone

SoHyeon Park and Kyungho Lee (Korea University, Korea)

A Semi-Supervised Approach to Credit Card Fraud Detection

Dahee Choi and Kyungho Lee (Korea University, Korea)

15:30 - 16:50 **3-D: MediSSec 2017**

Room: Studio-3

Chair: Mucheol Kim (Wonkwang University, Korea)

Research on Extending the Relationship Between Science and Social Issues

Mucheol Kim (Wonkwang University); Sang-Geun Kim (Sungkyul University, Korea); Sae Kyung Chang and Hangbae Chang (Chung-Ang University, Korea)

Preliminary Study for Performance Prediction of Anonymization Algorithm Considering Data Characteristics

Namyeon Lee (Sungkyul University, Korea); Sae Kyung Chang and Hangbae Chang (Chung-Ang University, Korea)

Systematization of Personal Medical Information for Preemptive Security Incident of Medical Institutions

Onechul Na, Jawon Kim, Sae Kyung Chang and Hangbae Chang (Chung-Ang University, Korea)

Characteristics of Malware in Small and Medium-Sized Hospitals and Cybersecurity Threat Status

Seungkyun Hong, Changhee Moon, Junyoung Kim and Jayho Jeong (Everyzone, Inc., Korea)

Designing Security Solution Framework on ICT Convergence Medical Industry Environment

Yanghoon Kim (FarEast University, Korea); Sae Kyung Chang and Hangbae Chang (Chung-Ang University, Korea)

A Study on Document Malicious Code Removal to Respond Effectively to Threats of Incoming Document

NamGil Heo and Jaepil Lee (SOFTCAMP. LTD, Korea)

New Re-Identification Scheme Applying REDIT-C in Differential Privacy Environment

Kwang-Soo Yeo, Cheol-Jung Kim and Soonseok Kim (Halla University, Korea)

16:50 - 17:10 *Coffee break*

17:10 - 18:30 *4-A: Computing Platform*

Room: Grand Ballroom A

Chair: Jongsung Kim (Kookmin University, Korea)

Safety - Critical Software Quality Improvement Using Requirement Analysis

HiJung Hwang (University of Dankook, Korea); Young B Park (Dankook University, Korea)

Constructing Toolchain for the Automatic Generation and Verification of System Model

Seungmin Lee and Young B Park (Dankook University, Korea)

Automatic Generation of UML Model-based Image Processing Source Code in Hadoop Platform

Mi-Eun Ko and Young B Park (Dankook University, Korea)

17:10 - 18:30 *4-B: CRET 2017*

Room: Grand Ballroom B

Chair: Kyeong-Ouk Jeong (Hannam University, Korea)

An Observation and Analysis of Elementary School English Classes Based on Universal Design for Learning

Young-Joo Jeon (Mokwon University, Korea); Je-Young Lee (Sehan University, Korea)

Metacognitive Reading Strategies in L1 and L2 among Gifted Students in English Language

Jyun Bang (Busan Metropolitan City Institute for Gifted Education and Promotion)

Learning Space: Assessment of Prescribed Activities of Online Learners

Shireen Panchoo (University of Technology, Mauritius)

University Students' Perception and Motivation of Using Digital Applications as Effective English Learning Tools

Kyeong-Ouk Jeong (Hannam University, Korea)

17:10 - 18:30 **4-C: CIA 2017 / SCA 2017**

Room: Studio-1

Chair: Jaehwa Chung (Korea National Open University, Korea, Korea)

Room Temperature Control and Fire Alarm/Suppression IoT Service Using MQTT on AWS

Sang-Gon Lee, Do-Hun Kang, Min-Sung Park, Hyoung-Sub Kim, Da-young Kim, Sang-Hui Kim and Hyeon-Ju Son (Dongseo University, Korea)

Camera Pose Estimation Using Optical Flow and ORB Descriptor in SLAM-Based Mobile AR Game

Se-Ra Oh; Young-Gab Kim

Developing a Prototype of REST-based Database Application for Shipbuilding Industry: A Case Study

Jeong-cheol Jeon (Korea National Open University & HHIC-TMS Co., Ltd., Korea); Jaehwa Chung (Korea National Open University, Korea, Korea)

17:10 - 18:30 **4-D: MediSSec 201**

Room: Studio-3

Chair: Yanghoon Kim (Far East University, Korea)

Design Study of Digital Forensic Readiness Centered on Medical Institutions

Minseo Jeon, Onechul Na, Sae Kyung Chang and Hangbae Chang (Chung-Ang University, Korea)

A Study on the Information Leakage Threat of Medical Institutions Through Analysis of Security Incident Data

Jawon Kim, Minseo Jeon, Sae Kyung Chang and Hangbae Chang (Chung-Ang University, Korea)

A Study on Medical Information Privacy in Unstructured Data of Big Data Age

Jongil Baek, Kyoungtaek Song, Wonkyun Choi, Khiguen Yu and Jihye Shin (JOEUNINS, Korea)

OAuth2 Based Authorization Framework for IoT Healthcare Security

Jungmi Kim, Sang-Pil Park and Seung-Hee Han (KSIGN, Korea)

Research About Methodology of Implementing Anonymization System for Manipulating of Personal Health Information

Boumsik Kim, Hanjin In and Kwon Ohseung (DIGITALZ Inc., Korea)

Mobile Healthcare Integrated Security Service

Jin chul Baek (HEALTHMAX CO., LTD., Korea); Sang ho Lee (CEO, Korea); Young su Kim (Development Team Leader, Korea)

Considerations for Vulnerability Assessment in the Healthcare

Keunho Park and SungJin Kim (Ajou University, Korea); Taeshik Shon (Ajou University & Ajou University, Korea)

19:00 - 20:30 **Reception Party & Service Award Ceremony**

Room: Grand Ballroom C

Casual Standing Party with delicious finger foods and drinks

Chair: Young-Ae Jung (Sun Moon University, Korea)

Tuesday, February 14

09:00 - 09:30 **Registration open**

2nd floor, Haeundae Grand Hotel

09:30 - 10:50 **5-A: Human & Media Platform**

Room: Grand Ballroom A

Chair: Mohamad Yusoff Alias (Multimedia University, Malaysia)

Evaluating the Localization for E-learning Website: Case study in Universiti Malaysia Sabah

Aslina Baharum (Universiti Malaysia Sabah, Malaysia); Rozita Ismail (Universiti Tenaga Nasional, Malaysia); Noor Fzlinda Fabeil (Universiti Malaysia Sabah, Malaysia); Nur Shahida Ab Fatah (UMS, Malaysia); Siti Hasnah Tanalol (Universiti Malaysia Sabah, Malaysia); Nurul Hidayah Mat Zain (Universiti Teknologi MARA & Universiti Kebangsaan Malaysia, Malaysia); Rozita Hanapi (& Technology, Malaysia)

Technology implementation success model designed for educational organizations

Simeon Arnaudov, SA (Seoul National University & TEMEP, Korea); Hyeon Young Yoon (Seoul national university, Korea); Jun Seok Hwang (Seoul National University, Korea)

09:30 - 10:50 **5-B: Convergence Platform**

Room: Grand Ballroom B

Chair: Jaehwa Chung (Korea National Open University, Korea, Korea)

A Study on the One-To-Many Authentication Scheme for Cryptosystem Based on Quantum Key Distribution

Minyoung Bae and Ju-Sung Kang (Kookmin University, Korea); Yongjin Yeom (Kookmin, Korea)

An Effective Intrusion Detection Classifier Using Long Short-Term Memory with Gradient Descent Optimization

Thi-Thu-Huong Le, Jihyun Kim and Ho Won Kim (Pusan National University, Korea)

3D Collision Avoidance Scheme for Low-Cost Micro UAVs

Myungwhan Choi and Areeya Rubenecia (Sogang University, Korea); Hyo Hyun Choi (Inha Technical College, Korea)

09:30 - 10:50 **5-C: SESIS 2017**

Room: Studio-1

Chair: Young-Gab Kim (Sejong University, Korea)

Analysis of Security Standardization for the Internet of Things

Intae Hwang and Young-Gab Kim (Sejong University, Korea)

Security Requirements Analysis for the Internet of Things

Se-Ra Oh and Young-Gab Kim (Sejong University, Korea)

Secure IoT Platform for Industrial Control Systems

A Amir Shahzad (Universiti Kuala Lumpur, Malaysia); Young-Gab Kim (Sejong University, Korea); Abulasad Elgamoudi (Al Zawiyah University, Libya)

09:30 - 10:50 **5-D: Convergence Platform**

Room: Studio-3

Chair: Young B. Park (Dankook University, Korea)

Improving Fair Scheduling Performance on Hadoop

Ya-Wen Cheng and Shou-Chih Lo (National Dong Hwa University, Taiwan)

Efficient Path Planning Methods for UAVs Inspecting Power Lines

Ka-Lok Man (Xi'an Jiaotong-Liverpool University, P.R. China)

A Formal Model for Robust Spatial-Aware Service Management in IoT-enriched Smart Home

Chun-Feng Liao (National Chengchi University, Taiwan)

10:50 - 11:10 **Coffee break**

11:10 - 12:30 **6-A: CIA 2017**

Room: Grand Ballroom A

Chair: Sanghyun Seo (SungKyul University, Korea)

How to Wake Up Cable TV Set-Top Boxes to Send Emergency Broadcast

Sungwon Byon, Eui-Suk Jung, Eunjung Kwon, Yong-Tae Lee and Hyun-Woo Lee (ETRI, Korea)

Context-Aware Platform for Disaster Training and Response

Hyunho Park, Eui-Suk Jung, Hyun-Woo Lee and Yong-Tae Lee (ETRI, Korea)

Location Based Disaster Information Distribution Platform for South Korea

Hyunho Park, Sang-Gu Jeong, Eui-Suk Jung, Hyun-Woo Lee and Yong-Tae Lee (ETRI, Korea)

11:10 - 12:30 **6-B: Convergence Platform**

Room: Grand Ballroom B

Chair: Mohamad Yusoff Alias (Multimedia University, Malaysia)

Predicting Persuasive Message for Changing Student's Attitude Using Data Mining

Yaowaluck Promdee (Computer Science Khon Kaen University, Thailand); Sumonta Kasemvilas, Napat Phangsuk and Rojana Yodthasarn (Khon Kaen University, Thailand)

Study on Security Risk and Its Countermeasures of O2O Service

Ji-hun Kim (Korea University & KITRIBOB, Korea); Woo-seok Cho (Sejong University && KITRIBOB, Korea); Jong-myeong Lee and Jin-o Park (KITRIBOB, Korea); Lee Jaehee (Korea University Center for Information Security Technologies, Korea)

AutoRec: A Recommender System based on Social Media Stream

Maria Rosario Rodavia (Arellano University, Philippines); Melvin Ballera and Shaneth Ambat (AMA University, Philippines); Gina Clemente (Arellano University, Philippines)

ATHENA: Distributed IoT Systems Providing Salient Features for Safety of Firefighters in Infra-less Fire Environments

Hyesun Lee, MyungNam Bae, Dong-Beom Shin, Sangyeon Lee, Seung Il Myong, Sang Gi Hong, Hoesung Yang, Jinchul Choi, Kyo-Hoon Son, Kang Bok Lee and HyoChan Bang (ETRI, Korea)

11:10 - 12:30 6-C: SCA 2017

Room: Studio-1

Chair: Jeongheon Kim (KISTI, Korea)

CAMOR: Congestion Aware Multipath Optimal Routing Solution by Using Software-Defined Networking

Syed Asif Raza Shah (Korea University of Science and Technology (UST) & Korean Institute of Science and Technology Information (KISTI), Korea); Woojin Seok (Korea Institute of Science and Technology information, Korea); Jin Kim (KISTI, Korea); SangWook Bae (Korea Institute of Science and Technology Information, Korea); Seo-Young Noh (Korea Institute of Science and Technology Information & University of Science and Technology, Korea)

Deployment of the Physical Analysis Farm with Workflow Management Application in Data Center

Byungyun Kong, Heejun Yoon and HeeJune Han (KISTI, Korea)

Data Center Infrastructure Management System for Efficient Utilization of Computing Resources

HeeJune Han, Heejun Yoon and Sang Oh Park (KISTI, Korea)

11:10 - 12:30 6-D: Computing Platform / MediSSec 2017

Room: Studio-3

Chair: Murali Subramaniam (SENIOR RESEARCH SCIENTIST & KRISS & ETRI, Korea)

A Study on Music Management System Using Music Representation Model

Ahyoung Kim (Electronics and Telecommunications Research Institute, Korea); Junwoo Lee (ETRI, Korea); Mucheol Kim (Sungkyul University, Korea)

A Design of Continuous Learning System Based on Knowledge Augmentation

Hyunjoong Kang (Electronics and Telecommunications Research Institute, Korea); SoonHyun Kwon (Electronics and Telecommunications Research Institute Daejeon Korea, Korea); Eunjoo Kim, Hyunjae Kim, Ho Sung Lee and Kwihoon Kim (ETRI, Korea); Nae-Soo Kim (Electronics and Telecommunications Research Institute (ETRI), Korea)

Emergency Care Summary Record for Patients with Prior Myocardial Infarction Using Computer-Aided Selection of Medical Images

Hye Ryun Kim (Ewha Womans University, Korea); Mi-Sun Kang (Ewha Woman's University, Korea); Myeong-Hee Kim (Ewha University, Korea)

12:30 - 14:00 Lunch

2nd floor, Haeundae Grand Hotel Grand Ballroom C

14:00 - 15:10 Invited Talk

Humanities in Software Engineering Part II: Open source movement and Taoism

Mr. Guenjun Yoo / Lead Solutions Engineer for Asia Pacific, PERFORCE Software

Room: Grand Ballroom A

Chair: Seungmin Rho (Sungkyul University, Korea)

15:10 - 15:30 *Coffee break*

15:30 - 16:50 *7-A: CIA 2017*

Room: Grand Ballroom A

Chair: Sanghyun Seo (SungKyul University, Korea)

A Study of Eye Image Extraction-based Automatic Character Creation E-Book Tool Application

Yangmi Lim (School of Digital Media, Duksung Women's University, Korea); Sanghun Nam (KIST, Korea)

Virtual Stimulus Cognitive Model for Autonomous Experience Learning

Gilsang Yoo (Korea University, Korea); Sungdae Hong (SeoKyeong University, Korea); Hyeoncheol Kim (Korea University, Korea)

UAV Planning to Optimize Efficiency of Image Stitching in Disaster Monitoring Using Smart-Eye Platform

Jihyeon Yim (ETRI, Korea); Junseong Bang and Seonghyun Kim (Electronics and Telecommunications Research Institute, Korea); Sanggu Jeong (UST, Korea); Yong-Tae Lee (Electronics and Telecommunications Research Institute, Korea)

15:30 - 16:50 *7-B: Convergence Platform*

Room: Grand Ballroom B

Chair: Young-Gab Kim (Sejong University, Korea)

Customer Churn Prediction in the Online New Media Platform: a Case Study on Juzi Entertainment

Sha Yuan (Hubei University of Economics, P.R. China); Shuotian Bai (University of Chinese Academy of Sciences, P.R. China); Mengmeng Song and Zhenyu Zhou (Beijing Juzi Technology Limited, P.R. China)

A Compressive Sensing-based Data Processing Method for Heterogeneous IoT Environments

Hyungkeuk Lee (Electronics and Telecommunications Research Institute, Korea); Nam Kyung Lee (ETRI, Korea)

A Situation-based Dialogue Classification Model for Emergency Calls

Keonsoo Lee (Soonchunhyang University, Korea); Jae Kwan Kim, Myon Woong Park and Laehyun Kim (Korea Institute of Science and Technology, Korea); Kuei-Fang Hsiao (Ming Chuan University, Taiwan)

Wake-up Stroke Prediction through IoT and its Possibilities

Murali Subramaniyam (SENIOR RESEARCH SCIENTIST & KRISS & ETRI, Korea); Seung Hee Hong (KRISS & ETRI, Korea); Da mee Kim (Korea Research Institute of Standards and Science (KRISS) & Electronics and Telecommunications Research Institute (ETRI), Korea); Se Jin Park (Principle Reseacher, Korea); Jaehak Yu (Electronics and Telecommunications Research Institute, Korea)

15:30 - 16:50 *7-C: CIA 2017*

Room: Studio-1

Chair: Sang Un Ahn (Korea Institute of Science and Technology Information, Korea)

Design of an Efficient Scientific Research Farm Management System

Duseok Jin (Korea Institute of Science and Technology Information, Korea); Ilyeon Yeo (KISTI, Korea); Jeongheon Kim (Korea Institute of Science and Technology Information, Korea)

Workload Analysis of GSDC Cluster Using PBS Batch System

Ilyeon Yeo (KISTI, Korea); Sang Un Ahn (Korea Institute of Science and Technology Information, Korea); Heejun Yoon (KISTI, Korea)

Study of IPv6 Security Issues in Large Scale Data Center

SangWook Bae (Korea Institute of Science and Technology Information, Korea); Heejun Yoon and Byungyun Kong (KISTI, Korea)

15:30 - 16:50 7-D: Interdisciplinary Session 1

Room: Studio-3

Chair: Young-Gab Kim (Sejong University, Korea)

Design and Deployment of Experiential Education in Korean Higher Education System

Sang-Soo Yeo (Mokwon University, Korea)

A Dynamic Integration Scheme Among Heterogeneous Middlewares for Dynamic Control of Cyber Physical System

Sang Oh Park (KISTI, Korea)

Triangle Cryptanalysis

Jongsung Kim (Kookmin University, Korea)

16:50 - 17:10 Coffee break

17:10 - 18:30 8-A: CIA 2017

Room: Grand Ballroom A

Chair: HangBae Chang (Chung-Ang University, Korea)

Interactive Evolutionary Computation of Color Palette Design Enhanced by Impression Words

Dwilya Makiwan, Kaori Yoshida and Mario Köppen (Kyushu Institute of Technology, Japan)

Enhanced Intelligent Character Recognition (ICR) Approach using Diagonal Feature Extraction and Euler Number as Classifier with Modified One-Pixel Width Character Segmentation Algorithm

Donata Acula, Yosuke Matsuoka, Gabriel Angelo Sandoval, Luis Paolo Say and Jann Skyler Teng (University of Santo Tomas, Philippines)

Evaluation of Hair and Scalp Condition Based on Microscopy Image Analysis

Hyungjoon Kim (Korea University, Korea); Woogeol Kim (Korea University, Korea); Jehyeok Rew and Jisoo Park (Korea University, Korea); Seungmin Rho (Sungkyul University, Korea); Eenjun Hwang (Korea University, Korea)

17:10 - 18:30 8-B: Networking Platform / FSP 2017

Room: Grand Ballroom B

Chair: Changhoon Lee (Seoul National University of Science and Technology, Korea)

Using Azure Machine Learning for Estimating Indoor Locations

Shin Hayakawa and Hitoshi Hayashi (Sophia University, Japan)

Privacy Preserving Watchdog System in Android Systems

Minho Shin and Jinsung Kim (Myongji University, Korea)

A Study on Secure and Improved Keyless-based Digital Signature

Gyeong-Jin Ra (University of SoonChunHyang, Korea); Im-Yeong Lee (University of Soonchunhyang, Korea)

A Study on Detecting Personal Identifiable Information in Large Files

Hyonam Jeong and Youngsik Na (Korea Institute of S&T Evaluation and Planning (KISTEP), Korea); JaeHyuk Cho (Korea Institute of S&T Evaluation and Planning, Korea)

17:10 - 18:30 8-C: SCA 2017

Room: Studio-1

Chair: SangWook Bae (Korea Institute of Science and Technology Information, Korea)

Data Center Network Characteristic Analysis Through a GSDC Case Study

Jin Kim and Ilyeon Yeo (KISTI, Korea); Kujin Cho (Korea Institute of Science & Technology Information, Korea)

A Research on Traceability in Pilot-based Workload Management Environment for the Grid

Sang Un Ahn (Korea Institute of Science and Technology Information, Korea); Ilyeon Yeo (KISTI, Korea); SangWook Bae (Korea Institute of Science and Technology Information, Korea)

Cost-benefit Analysis of Open High Performance Computing Platform: Case of KISTI's 4th Supercomputer

Myoung-Ju Koh (KISTI, Korea); Kujin Cho (Korea Institute of Science & Technology Information, Korea); Jin Kim (KISTI, Korea)

17:10 - 18:30 8-D: Interdisciplinary Session 2

Room: Studio-3

Chair: Sang-Soo Yeo (Mokwon University, Korea)

AMI Security Issues in Microgrid Environment

Sang-Soo Yeo (Mokwon University, Korea)

Recent Trends of Machine Learning for Music Information Retrieval and Recommendation

Seungmin Rho (Sungkyul University, Korea)

Noise Removal Using Split Bregman by Local-Oriented Laplacian of Color Image Tensor Structure

Jeongheon Kim (Korea Institute of Science and Technology Information, Korea)

19:15 - 20:30 *Conference Banquet*

Banquet & Award Ceremony

Room: **Grand Ballroom C**

Chair: Lee Won Park (ChungAng University, Korea)



Wednesday, February 15

09:00 - 09:30 *Registration open*

2nd floor, Haeundae Grand Hotel

09:30 - 10:50 *9-A: Convergence Platform / CIA 2017*

Room: Grand Ballroom A

Chair: Sanghyun Seo (SungKyu University, Korea)

A Study on the Possibility of the Success of a Large-Scale R&D Programs Using Bayesian Network and Fuzzy

JaeHyuk Cho (Korea Institute of S&T Evaluation and Planning, Korea); Hyonam Jeong and Youngsik Na (Korea Institute of S&T Evaluation and Planning)

Realtime Data Visualization Using Temporal Data of Device

SeungTaek Ryoo and Jae-Khun Chang (Hanshin University, Korea)

A Real-time Video Recoloring for Augmented Reality

Sanghyun Seo (SungKyu University, Korea); HyungIk Jeon and BeomChul Kim (Sungkyul University, Korea)

The Effects of Technological Change of the ICT Industry in Korea Economic Growth

Youngsik Na and Hyonam Jeong (Korea Institute of S&T Evaluation and Planning (KISTEP), Korea); JaeHyuk Cho (Korea Institute of S&T Evaluation and Planning, Korea)

09:30 - 10:50 *9-B: Computing Platform / SCA 2017*

Room: Grand Ballroom B

Chair: Sang Oh Park (KISTI, Korea)

Docker Based Datacenter for Grid Computing in GSDC HTC Environment

Jeongheon Kim (Korea Institute of Science and Technology Information, Korea); Heejun Yoon (KISTI, Korea); Duseok Jin (Korea Institute of Science and Technology Information, Korea)

A Real Time Mass Archiving System for WLCG Tier-1

Sang Oh Park and Ilyeon Yeo (KISTI, Korea); Sang Un Ahn (Korea Institute of Science and Technology Information, Korea)

Computer Vision-based Pressure Gauge Measurement for Fire Extinguisher Inspection

Ki-Hong Park and Yang-Sun Lee (Mokwon University, Korea); Su Ji Kim (DNI Co., Korea); Young Hyeon Kim and Byung Chul Park (DNI CO., Korea)

09:30 - 10:50 9-C: Interdisciplinary Session 3

Room: Studio-1

Chair: Yang-Sun Lee (Mokwon University, Korea)

Security Analysis of Blockcipher-Based Hash Functions

Jongsung Kim (Kookmin University, Korea)

Real-time Feedback Smoothing Framework by Split Bregman Approach

Jeongheon Kim (Korea Institute of Science and Technology Information, Korea)

Design of Robust Network Against Ransomware

Seonghyeon Gong and Changhoon Lee (Seoul National University of Science and Technology, Korea)

09:30 - 10:50 9-D: Interdisciplinary Session 4

Room: Studio-3

Chair: Sang-Soo Yeo (Mokwon University, Korea)

Privacy Protection Schemes in RFID and Its Network

Sang-Soo Yeo and MiSuk Lim (Mokwon University, Korea)

Humanities and Philosophy in Software Engineering

Young-Ae Jung (Sun Moon University, Korea); Guenjun Yoo (Perforce Software, Australia)

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