

# PROGRAM SCHEDULE

February 14, 2016 (Sunday)	
11:00-12:00	<b>Local Arrangement Meeting</b> Chair: Sang Oh Park <b>LOTTE City Hotel Jeju, Seminar Room</b>
13:30-15:30	<b>ICTPS &amp; KISTI Steering Meeting</b> Chair: Changhoon Lee <b>LOTTE City Hotel Jeju, Seminar Room</b>
16:00-18:00	<b>Conference Committees Meeting</b> Chair: Sang-Soo Yeo <b>LOTTE City Hotel Jeju, Seminar Room</b>



February 15, 2016 (Monday)			
09:00-09:30	Registration (4th floor)		
09:30-10:50	<table border="0"> <tr> <td style="width: 50%; text-align: center;"> <b>1-A: CRET-16</b>                      Chair: Kyeong-Ouk Jeong  <b>Crystal Ballroom 1</b> </td> <td style="width: 50%; text-align: center;"> <b>1-B: Convergence Platform</b>                      Chair: Seungmin Rho  <b>Crystal Ballroom 3</b> </td> </tr> </table>	<b>1-A: CRET-16</b> Chair: Kyeong-Ouk Jeong <b>Crystal Ballroom 1</b>	<b>1-B: Convergence Platform</b> Chair: Seungmin Rho <b>Crystal Ballroom 3</b>
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10:50-11:10	Coffee Break		
11:10-12:30	<table border="0"> <tr> <td style="width: 50%; text-align: center;"> <b>2-A: FSP-16</b>                      Chair: Taeshik Shon  <b>Crystal Ballroom 1</b> </td> <td style="width: 50%; text-align: center;"> <b>2-B: Computing Platform</b>                      Chair: Hyuk Jun Kwon  <b>Crystal Ballroom 3</b> </td> </tr> </table>	<b>2-A: FSP-16</b> Chair: Taeshik Shon <b>Crystal Ballroom 1</b>	<b>2-B: Computing Platform</b> Chair: Hyuk Jun Kwon <b>Crystal Ballroom 3</b>
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12:30-14:00	Lunch		
14:00-15:10	<p style="text-align: center;"><b>Opening Remark &amp; Invited Talk</b></p> <p style="text-align: center;"><i><b>Building a cloud based science educational platform for remote area schools- a study case on indigenous Taiwanese children</b></i></p> <p style="text-align: center;">by Dr. Kuo Yuan Hwa, Associate Professor, National Taipei University of Technology, Taiwan</p> <p style="text-align: center;"><b>Crystal Ballroom 2(4<sup>th</sup> floor) / Chair: Changhoon Lee</b></p>		
15:10-15:30	Coffee Break		
15:30-16:50	<table border="0"> <tr> <td style="width: 50%; text-align: center;"> <b>3-A: CRET-16</b>                      Chair: Young-Joo Jeon  <b>Crystal Ballroom 1</b> </td> <td style="width: 50%; text-align: center;"> <b>3-B: Computing Platform</b>                      Chair: Junseong Bang  <b>Crystal Ballroom 3</b> </td> </tr> </table>	<b>3-A: CRET-16</b> Chair: Young-Joo Jeon <b>Crystal Ballroom 1</b>	<b>3-B: Computing Platform</b> Chair: Junseong Bang <b>Crystal Ballroom 3</b>
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16:50-17:10	Coffee Break		
17:10-18:30	<table border="0"> <tr> <td style="width: 50%; text-align: center;"> <b>4-A: Convergence Platform</b>                      Chair: Mucheol Kim  <b>Crystal Ballroom 1</b> </td> <td style="width: 50%; text-align: center;"> <b>4-B: Human &amp; Media Platform</b>                      Chair: Soo Kyun Kim  <b>Crystal Ballroom 3</b> </td> </tr> </table>	<b>4-A: Convergence Platform</b> Chair: Mucheol Kim <b>Crystal Ballroom 1</b>	<b>4-B: Human &amp; Media Platform</b> Chair: Soo Kyun Kim <b>Crystal Ballroom 3</b>
<b>4-A: Convergence Platform</b> Chair: Mucheol Kim <b>Crystal Ballroom 1</b>	<b>4-B: Human &amp; Media Platform</b> Chair: Soo Kyun Kim <b>Crystal Ballroom 3</b>		
19:00-20:30	<p style="text-align: center;"><b>Reception Party &amp; Service Award Ceremony</b></p> <p style="text-align: center;"><b>Crystal Ballroom 2(4<sup>th</sup> floor) / Chair : Hyuk Jun Kwon</b></p>		

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 16, 2016 (Tuesday)			
09:00-09:30	Registration (3 <sup>rd</sup> floor)		
09:30-10:50	<table border="1"> <tr> <td>5-A: FSP-16 Chair: Hyuk-Jun Kwon <b>Crystal Ballroom 1</b></td> <td>5-B: Computing &amp; Networking Platform Chair: Ka-Lok Man <b>Crystal Ballroom 3</b></td> </tr> </table>	5-A: FSP-16 Chair: Hyuk-Jun Kwon <b>Crystal Ballroom 1</b>	5-B: Computing & Networking Platform Chair: Ka-Lok Man <b>Crystal Ballroom 3</b>
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10:50-11:10	Coffee Break		
11:10-12:30	<table border="1"> <tr> <td>6-A: CRET-16 Chair: Eunsoon Cho <b>Crystal Ballroom 1</b></td> <td>6-B: Human &amp; Media Platform &amp; VSE-16 Chair: Chun-Feng Liao <b>Crystal Ballroom 3</b></td> </tr> </table>	6-A: CRET-16 Chair: Eunsoon Cho <b>Crystal Ballroom 1</b>	6-B: Human & Media Platform & VSE-16 Chair: Chun-Feng Liao <b>Crystal Ballroom 3</b>
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12:30-14:00	Lunch		
14:00-15:10	<p align="center"><b>Industrial Talk Session</b>  <i>Modern Software Engineering and Ancient Philosophy</i>                      by Mr. Guenjun Yoo, Lead Solutions Engineer for Asia Pacific, PERFORCE Software, Australia  <i>Microsoft Trusted Cloud</i>                      by Dr. Jong Whoi Shin, CISO(Chief Information Security Officer) at Microsoft Korea, Korea  <b>Crystal Ballroom 2(4<sup>th</sup> floor)</b> / Chair: Young-Ae Jung</p>		
15:10-15:30	Coffee Break		
15:30-16:50	<table border="1"> <tr> <td>7-A: CRET-16 Chair: Young-Joo Jeon <b>Crystal Ballroom 1</b></td> <td>7-B: FSP-16 Chair: Jongsung Kim <b>Crystal Ballroom 3</b></td> </tr> </table>	7-A: CRET-16 Chair: Young-Joo Jeon <b>Crystal Ballroom 1</b>	7-B: FSP-16 Chair: Jongsung Kim <b>Crystal Ballroom 3</b>
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19:00-20:30	<p align="center"><b>Conference Banquet</b>  <b>Foyer (4<sup>th</sup> floor)</b> / Chair: Young-Ae Jung</p>		

February 17, 2016 (Wednesday)			
09:00-09:30	Registration (3 <sup>rd</sup> floor)		
09:30-10:50	<table border="1"> <tr> <td>9-A: VSE-16 Chair: Robert Youngchul Kim <b>Crystal Ballroom 1</b></td> <td>9-B: FSP-16 Chair: Changhoon Lee <b>Crystal Ballroom 3</b></td> </tr> </table>	9-A: VSE-16 Chair: Robert Youngchul Kim <b>Crystal Ballroom 1</b>	9-B: FSP-16 Chair: Changhoon Lee <b>Crystal Ballroom 3</b>
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10:50-11:10	Coffee Break		
11:10-12:30	<table border="1"> <tr> <td>10-A: VSE-16 Chair: Sang-Soo Yeo <b>Crystal Ballroom 1</b></td> <td>10-B: Convergence &amp; Networking Platform Chair: Sanghyun Seo <b>Crystal Ballroom 3</b></td> </tr> </table>	10-A: VSE-16 Chair: Sang-Soo Yeo <b>Crystal Ballroom 1</b>	10-B: Convergence & Networking Platform Chair: Sanghyun Seo <b>Crystal Ballroom 3</b>
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## TECHNICAL SCHEDULE FOR PLATCON-16

### Sunday, February 14

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

Chair: Sang Oh Park (KISTI, Korea),

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

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

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

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

### Monday, February 15

**09:00 - 09:30** *Registration open (3rd floor)*

3<sup>rd</sup> floor, LOTTE City Hotel Jeju

**09:30 - 10:50** *1-A: CRET-16*

**Room: Crystal Ballroom 1**

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

***Study on the Improvement Remedy of Digital Textbook's Application From Pre-Service Teachers' Perspectives***

Sunhee Park and Hyeon Yun (Hannam University, Korea); Kyungsun Park (Korea Invention Promotion Association, Korea)

***A Study on Korean EFL Pre-service Teachers' Motivations in Choosing Teaching as a Career***

Kyeong-Ouk Jeong (Hannam University, Korea)

***A Study on the Creative Art Curriculum for Young Children Through Virtual Intercultural Exchange***

JeeHyun Bae (Sungshin Women's University, Korea)

***A Study on the Flipped Instructional Model to Support Active and Interactive Learning***

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

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

**Room: Crystal Ballroom 3**

Chair: Seungmin Rho (Sungkyul University, Korea)

***Practical Additive Homomorphic Encryption for Statistical Analysis Over Encrypted Data***

Taek-Young Youn and Nam-Su Jho (Electronics and Telecommunications Research Institute, Korea); Ku-Young Chang (ETRI, Korea)

***A Study on Efficient Log Visualization Using D3 Component Against APT***

Jaehee Lee (Korea University, Korea); Jinhyeok Jeon (Sungkyunkwan University, Korea); Changyeob Lee (Sogang University, Korea); Junbeom Lee (University of Suwon, Korea); Jaebin Cho (Kyonggi University, Korea); Kyungho Lee (Korea University, Korea)

***Detecting Text Similarity on a Scalable No-SQL Database Platform***

Sergey Butakov (Concordia University of Edmonton, Canada); Stepan Murzintsev and Aleksandr Tskhai (Altai Academy of Economics and Law, Russia)

***An Adaptive Transcursive Algorithm for Depth Estimation for Deep Learning Networks***

Uthra Kunathur Thikshaja, Anand Paul and Deblina Bhattacharjee (Kyungpook National University, Korea) Seungmin Rho (Sungkyul University, Korea)

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

**11:10 - 12:30 2-A: FSP-16**

**Room: Crystal Ballroom 1**

Chair: Taeshik Shon (Ajou University, Korea)

***Security Through Authentication Infrastructure in Open Maritime Cloud***

Donghyeok Lee and Namje Park (Jeju National University, Korea)

***Detection and Response of Identity Theft Within a Company Utilizing Location Information***

Yuchoel Cho (KOREA University; Samsung Electronics, Korea); Sangjin Lee (Korea University, Korea)

***Secure Mutual Authentication Protocol for RFID Based on Elliptic Curve Cryptography***

Amjad Alamr, Firdous Kausar (Imam Mohammad bin Saud Islamic University, Saudi Arabia); Jongsung Kim (Kookmin University, Korea)

***Dempster-Shafer Fusion Based Gender Recognition for Speech Analysis Applications***

Jamil Ahmad, Khan Muhammad and Soon-il Kwon (Sejong University, Korea); Seungmin Rho (Sungkyul University, Korea); Sung Baik (Sejong University, Korea)

**11:10 - 12:30 2-B: Computing Platform**

**Room: Crystal Ballroom 3**

Chair: Hyuk Jun Kwon (Soon Chun Hyang University, Korea)

***Impact of Dynamic Scheduling for Dual Core Architecture Using VHDL***

Joseph Arul (Fu Jen Catholic University; CSIE, Taiwan); Ko Han-Yao (Fu Jen Catholic University, Taiwan)

***The Impact of Cloud Technology on the Automation of Businesses***

Preethi Josephina Mudialba (Nanyang Technological University, Singapore)

***A Study on the Fundamental Properties, Feature and Usage of Cloud Simulators***

Preethi Josephina Mudialba (Nanyang Technological University, Singapore)

**12:30 - 14:00 Lunch**

Foyer, 4<sup>th</sup> floor, LOTTE City Hotel Jeju

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

**Building a cloud based science educational platform for remote area schools- a study case on indigenous Taiwanese children**

Dr. KuoYuan Hwa, Professor, National Taipei University of Technology, Taiwan

**Room: Crystal Ballroom 2 (4<sup>th</sup> floor)**

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

**15:10 - 15:30 Coffee break**

**15:30 - 16:50 3-A: CRET-16**

**Room: Crystal Ballroom 1**

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

***Establishing a Cloud-Based Indigenous Elementary School E-Learning System Assimilating Into Indigenous Culture for Health Science Education - South-Taiwan Tribe Experience***

Yen-Liang Lee (Graduate Institute of Biomedical Informatics, Taipei Medical University, Taiwan); Kai-Lung Wang (National Taipei University of Technology, Taiwan); Chien-Yeh Hsu (National Taipei University of Nursing and Health Sciences, Taiwan); Yi-Chun Chen (National Taipei University of Technology, Taiwan); Cheng-Jheng Yao and An-Cheng Chen (National Taipei University of Nursing and Health Sciences, Taiwan); Cheng-Mei Chen (Graduate Institute of Biomedical Informatics, Taipei Medical University, Taiwan); KuoYuan Hwa (National Taipei University of Technology, Taiwan); Hsiao-Hsien Rau and Hung-Wen Chiu (Taipei Medical University, Taiwan)

***Relations Between Science Activities of STEAM and Job Choice on High School Students***

Jeungeun Cho and Hyoungbum Kim (Chungbuk National University, Korea)

***The Effectiveness Of Cultural Inclusive Health Education Peradogy for Taiwan Indigenous Elementary Students Through e-Platform***

KuoYuan Hwa and Kai-Lung Wang (National Taipei University of Technology, Taiwan)

***Organizational Benefits of Computerized Physician Order Entry (CPOE) System in Pakistan***

Suleman Atique (Taipei Medical University, Graduate Institute of Bio-medical Informatics, Taiwan); Yen-Liang Lee (Graduate Institute of Biomedical Informatics, Taipei Medical University, Taiwan); Chien-Yeh Hsu (National Taipei University of Nursing and Health Sciences, Taiwan); Shabbir Syed-Abdul and Hsiao-Hsien Rau (Taipei Medical University, Taiwan)

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

**Room: Crystal Ballroom 3**

Chair: Junseong Bang (ETRI, Korea)

***Towards Reducing Energy Consumption Using Inter-Process Scheduling in Preemptive Multitasking OS***

Samih M. Mostafa and Shigeru KUSAKABE (Kyushu University, Japan)

***Development of Human Body Reaction Information Measurement System Based on Color Environments***

Ji Eon Kim (Wonkwang University, Korea); Chang-Won Jeong (Wonkwang University; Dept. of Computer Engineering, Korea); Si-Hyung No and Su-Chong Joo (Wonkwang University, Korea)

***QoS Optimizer***

Gunjae Yoon, Shineun Lee and Hoon Choi (Chungnam National University, Korea)

**16:50 - 17:10 Coffee break**

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

**Room: Crystal Ballroom 1**

Chair: Mucheol Kim (Sungkyul University, Korea)

***Framework of Lot Order Pegging for Semiconductor Manufacturing***

Jae-Gon Kim (Incheon National University, Korea); June-Young Bang (Sungkyul University, Korea); Seung-Kil Lim (Sungkyul University, Korea); Byung-Hee Kim (VMS Solutions Co., Ltd., Korea)

***Situation Based Dynamic Planning for Dialog Support with Hierarchical Knowledge***

Keonsoo Lee (KIST, Korea); Jae Kwan Kim, Myon Woong Park and Laehyun Kim (Korea Institute of Science and Technology, Korea)

***A Case Study for the Enhanced Performance Measurement Model in Mobile Business Environment***

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

***Study of Market Scale and Share Estimation Methodology on Effective Feasibility Analysis of Government R&D Program Related to Information Technology***

JaeHyuk Cho (Korea Institute of S&T Evaluation and Planning, Korea); Bonghoon Kim (Global R&D Center at Hanyang University, Korea); Changho Choi (Korea Institute of Convergence Information Industry, Korea); Hyonam Jeong (Seoul Women's University, Korea)

**17:10 - 18:30 4-B: Human & Media Platform**

**Room: Crystal Ballroom 3**

Chair: Soo Kyun Kim (Paichai University, Korea)

***A Real-Time Combination of Text-Mining Methods for Flexible Movie Recommendation in Human Robot Interaction***

Namyeon Lee (Sungkyul University, Korea); Eunji Kim (Kyung Hee University, Korea); Obyung Kwon (Kyunghee University, Korea)

***UX Design Guideline for Health Mobile Application to Improve Accessibility for the Visually Impaired***

Woo jin Kim (Kyungpook National University; Intelligent Health Information Sharing Research Center, Korea); Il Kon Kim and Man Ki Jeon (Kyungpook National University, Korea); Jongoh Kim (Sogang University, Korea)

***Development of Interactive Chatting Game Base on Sentiment Analysis Method***

Shinjin Kang and Jin Hyung Ahn (Hongik University, Korea); Min Hong (Soonchunhyang University, Korea); Soo Kyun Kim (Paichai University, Korea)

***Shortest Path Navigation for a Mix of Undirected and One-Way Roads Using k-SPT Method***

Kunihiko Kaneko (Fukuyama University, Japan); Shinya Honda (Kyushu University, Japan)

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

**Room: Crystal Ballroom 2 (4<sup>th</sup> floor)**

Chair: Hyuk Jun Kwon (Soon Chun Hyang University, Korea)

## Tuesday, February 16

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

3rd floor, LOTTE City Hotel Jeju

### 09:30 - 10:50 *5-A: FSP-16*

#### Room: Crystal Ballroom 1

Chair: Hyukjun Kwon (Soon Chun Hyang University, Korea)

#### *Digital Forensic Technology Management Platform*

SangJun Jeon (CIST, Korea University, Korea); Sangjin Lee (Korea University, Korea)

#### *Parallel Implementations of SIMON and SPECK*

Taehwan Park, Hwajeong Seo and Ho Won Kim (Pusan National University, Korea)

#### *Distinguishing Attack on XO-64*

Tran Song Dat Phuc and Changhoon Lee (Seoul National University of Science and Technology, Korea)

### 09:30 - 10:50 *5-B: Computing & Networking Platform*

#### Room: Crystal Ballroom 3

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

#### *A Literature Review: Usability Aspects of Ubiquitous Computing*

Serap Yağmur (Middle East Technical University, Turkey)

#### *Ubiquitous Healthcare Platform for Chronic Patients*

DongMin Shin (Sejong Univ, Korea); Dongil Shin and Dongkyoo Shin (Sejong University, Korea)

#### *Middleware Support for Dynamic Sensing Applications*

Ka-Lok Man (Xi'an Jiaotong-Liverpool University, P.R. China); Danny Hughes (Katholieke Universiteit Leuven, Belgium); Sheng-Wei Guan (Xian Jiatong-Liverpool University, P.R. China); Prudence Wong (University of Liverpool, United Kingdom)

#### *Vertical Handover Decision Based on RBF Approach for Ubiquitous Wireless Networks*

Sunisa Kunarak (Srinakharinwirot University, Thailand)

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



**11:10 - 12:30 6-A: CRET-16**

**Room: Crystal Ballroom 1**

Chair: Eunsoon Cho (Mokwon University, Korea)

***Effects of Dictogloss on Korean Students' L2 Learning - A Review for Research Synthesis***

Je-Young Lee (Sehan University, Korea)

***Korean Students' Perception of the Curriculum for Creativity and Personal Character***

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

***Twitter News in Education Platform for Collaborative Learning***

Yongsung Kim, Byeongjin Na, Jinwoong Park and Eenjun Hwang (Korea University, Korea); Seungmin Rho (Sungkyul University, Korea)

**11:10 - 12:30 6-B: Human & Media Platform & VSE-16**

**Room: Crystal Ballroom 3**

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

***WISE: a Wearable Platform for Performer-guided Mixed-reality Interactive Performance Art***

Chun-Feng Liao, Wei-Chen Lu, Kung Chen, Wei-Chen Chang and Yi-Kai Hsiao (National Chengchi University, Taiwan); Zack Grannan (University of California, San Diego, USA)

***A Collaborative Space and Its Entities: The Importance of Roles and Relationship of Entities***

Zainura Idrus (Universiti Teknologi MARA Shah Alam, Malaysia); Siti Z. Z. Abidin and Nasiroh Omar (Universiti Teknologi MARA, Malaysia); Zanariah Idrus (Universiti Teknologi MARA Kedah, Malaysia)

***Usable Authentication Mechanisms for Mobile Devices: An Exploration of 3D Graphical Passwords***

Zhen Yu (Xi'an Jiaotong-Liverpool University, P.R. China); Ilesanmi Olade (Xi'an Jiaotong-Liverpool University, P.R. China); Haining Liang (Xi'an Jiaotong Liverpool University, P.R. China); Charles Fleming (Xi'an Jiaotong-Liverpool University; University of California Los Angeles, P.R. China)

**12:30 - 14:00 Lunch**

Foyer, 4<sup>th</sup> floor, LOTTE City Hotel Jeju

**14:00 - 15:10 Industrial Talk Session**

**Modern Software Engineering and Ancient Philosophy**

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

**Microsoft Trusted Cloud**

Dr. Jong Whoi Shin, CISO(Chief Information Security Officer) at Microsoft Korea, Korea

**Room: Crystal Ballroom 2 (4<sup>th</sup> floor)**

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

**15:10 - 15:30** *Coffee break*

**15:30 - 16:50** *7-A: CRET-16*

**Room: Crystal Ballroom 1**

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

***Case Study of Flipped Learning in Pre-service Science Teachers Class***

Ma-Byong Yoon (Jeonju University, Korea); Hak-Sung Kim (Korea National University of Education, Korea); Jonghak Lee (Daegu Educational National University, Korea)

***Suggestion on Teachers' Beliefs Research on Teaching English as a Lingua Franca***

Koun Choi (University of Cambridge, United Kingdom); Young-Joo Jeon (Mokwon University, Korea)

***Automating Web Tasks by Simulating Browser Behaviors***

Chun-Hsiung Tseng (Nanhua University, Taiwan); Yung-Hui Chen (LungHwa University of Science and Technology, Taiwan); Yan-Ru Jiang, Pin-Yu Su and Fang-Chi Tsai (Nanhua University, Taiwan)

**15:30 - 16:50** *7-B: FSP-16*

**Room: Crystal Ballroom 3**

Chair: Jongsung Kim (Kookmin University, Korea)

***Transaction Authentication Scheme Based on Enhanced Signature RTD for NFC Payment Service Environments***

Sung Wook Park and Im-Yeong Lee (University of Soonchunhyang, Korea)

***Long Short Term Memory Recurrent Neural Network Classifier for Intrusion Detection***

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

***Performance Evaluation of Firmware Cryptographic Modules on Various MCU Environments***

Hyunjung An (Kookmin University, Korea); Seunghwan Yun (Korea University, Korea); Okyeon Yi (Kookmin University, Korea)

**16:50 - 17:10** *Coffee break*

**17:10 - 18:30** *8-A: VSE-16*

**Room: Crystal Ballroom 1**

Chair: YunHee Kang (BaekSeok University, Korea)

***A Method of Handling Metamodel Based on XML Database for Software Visualization***

Hyun Seung Son and Robert Young Chul Kim (Hongik University, Korea)

***Code Complexity on Before & After Applying Design Pattern Through SW Visualization***

So Young Moon, Bo Kyung Park and Robert Youngchul Kim (Hongik University, Korea)

***Twister Platform for MapReduce Applications on a Docker Container***

YunHee Kang (BaekSeok University, Korea); Robert Young Chul Kim (Hongik University, Korea)

***Automatic Generation Method of State Transition Mapping Tree***

Je-ho Park, Soo-Kyung Choi and Young B Park (Dankook University, Korea)

**17:10 - 18:30 8-B: KISTI-GSDC**

**Room: Crystal Ballroom 3**

Chair: Jeongheon Kim (KISTI, Korea)

***Improve Performance and Throughput of VMs for Scientific Workloads in a Cloud Environment***

Syed Asif Raza Shah (University of Science and Technology (UST) Korea; Korean Institute of Science and Technology Information (KISTI), Korea); Amol Hindurao Jaikar (KISTI, Daejeon, South Korea, 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)

***Performance Analysis of NAS and SAN Storage for Scientific Workflow***

Amol Hindurao Jaikar (KISTI, Daejeon, South Korea, Korea); Syed Asif Raza Shah (University of Science and Technology (UST) Korea; Korean Institute of Science and Technology Information (KISTI), Korea); Seo-Young Noh (Korea Institute of Science and Technology Information; University of Science and Technology, Korea); SangWook Bae (Korea Institute of Science and Technology Information, Korea)

***Profiling Job Activities of Batch Systems in the Data Center***

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

***Effective System Construction for Datacenter Which Uses Multiple Batch Systems***

Jin Kim (KISTI, Korea); Sang Un Ahn (Korea Institute of Science and Technology Information, Korea)

***Performance Evaluation of Multithreaded Computations for CPU Bounded Task***

Jin Kim (KISTI, Korea); Sung Yun Yu (Korea Research Institute of Biotechnology, Korea); Jinsoo Park (Yong In University, Korea)

**19:15 - 20:30 Conference Banquet**

**Banquet & Award Ceremony**

**Room: Foyer (4<sup>th</sup> floor)**

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

**Wednesday, February 17**

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

3th floor, LOTTE City Hotel Jeju

**09:30 - 10:50 9-A: VSE-16**

**Room: Crystal Ballroom 1**

Chair: Robert Youngchul Kim (Hongik University, Korea)

***Mapping SW Development Process with Safety Process for Safe Software***

So Young Moon and Robert Youngchul Kim (Hongik University, Korea)

***SW Visualization Framework for Safe Software***

So Young Moon, Bo Kyung Park and Robert Youngchul Kim (Hongik University, Korea)

***Improving Use Case Point(UCP) Based on Function Point (FP) Mechanism***

Bo Kyung Park, So Young Moon and Robert Youngchul Kim (Hongik University, Korea)

**09:30 - 10:50 9-B: FSP-16**

**Room: Crystal Ballroom 3**

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

***Network Operation and Management System for Low-power Wireless Sensor Network***

Kyeseon Lee and Jae-Hong Ryu (ETRI, Korea); Nae-Soo Kim (Electronics and Telecommunications Research Institute (ETRI), Korea)

***Evaluating the Suitability of Color Spaces for Image Steganography and Its Application in Wireless Capsule Endoscopy***

Khan Muhammad, Jamil Ahmad and Muhammad Sajjad (Sejong University, Korea); Seungmin Rho (Sungkyul University, Korea); Sung Wook Baik (Sejong University, Korea)

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

**11:10 - 12:30 10-A: VSE-16**

**Room: Crystal Ballroom 1**

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

***Refining an Assessing Model for a Simplified TMM***

Bo Kyung Park, So Young Moon, Woo Sung Jang and Robert Youngchul Kim (Hongik University, Korea); Ki Du Kim (Telecommunications Technology Association, Korea); C. R. Carlson (Dept. of ITM, Illinois Institute of Technology, USA)

***Visualization for the Assessment Model of an Simplified Test Maturity Model (TMM)***

WooSung Jang, Robert Young Chul Kim and Bo Kyung Park (Hongik University, Korea); C. R. Carlson (Dept. of ITM, Illinois Institute of Technology, USA); Ki Du Kim (Telecommunications Technology Association, Korea)

**11:10 - 12:30 10-B: Convergence & Networking Platform**

**Room: Crystal Ballroom 3**

Chair: Sanghyun Seo (ETRI, Korea)

***Emotion Evaluation Analysis and System Design of Biosignal***

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

***Network Assistance to Localization and Mapping for Outdoor Augmented Reality in Cellular Network***

Junseong Bang, Dong-Chun Lee, HunJoo Lee and Wookho Son (Electronics and Telecommunications Research Institute, Korea);

***Network Connectivity of IPTV STB Low Power Mode***

Sungwon Byon (Electronics and Telecommunication Research Insititute, Korea); Eui-Suk Jung and Eunjung Kwon (ETRI, Korea); Yong-Tae Lee (Electronics and Telecommunications Research Institute, Korea); Hyun-Woo Lee (ETRI(Electronics and Telecommunications Research Institute), Korea)

***Network Interworking Mechanism to Reduce Standby Power of Set Top Box in Smart Home***

Hyunho Park (ETRI, Korea); Sungwon Byon (Electronics and Telecommunication Research Insititute, Korea); Junghak Kim (Electronics and Telecommunications Research Institute, Korea); Eui-Suk Jung (ETRI, Korea); Yong-Tae Lee (Electronics and Telecommunications Research Institute, Korea); Hyun-Woo Lee (ETRI(Electronics and Telecommunications Research Insititute), Korea)

***Video Motion Analysis for Landscape Image Abstraction***

Sanghyun Seo, YongJun Kim, HunJoo Lee and Wookho Son (ETRI, Korea)

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