

ICCT 2014

**"The 4th International Conference on
Convergence Technology 2014"**

Vol.4 No.1

● **Date : July 2-5, 2014**

● **Place : Manila Diamond Hotel, Philippines**

● **Co-organized by :**

Korea Convergence Society

Korea Institute of Science and Technology Information(KISTI)

De La Salle University, Philippines

Bulacan State University, Philippines

The Korea Society of Digital Policy&Management

● **Sponsored by :**

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- Dr. Haeng-Jin Jang (KISTI, Korea)

Congratulatory Address



Ladies and Gentlemen!

Welcome to the 4th International Conference on Convergence Technology (ICCT 2014), which is held in Manila, Philippine. I am happy because I am here in Manila, Philippine. I knew Manila is the capital of Philippine and also one of the most beautiful cities in the world.

As a general co-chair of the conference, I take great pleasure in hosting today's events and it is my pleasure and honor to bring a congratulatory address on behalf of all the members of Korea Convergence Society. In fact, 2014 ICCT is co-organized by Korea Convergence Society, Korea Institute of Science and Technology Information (KISTI), De La Salle University and Bulacan State University in Philippine. Now, I deeply appreciate for KISTI as well as the two universities in Philippine for their assistance and co-organization of this conference.

Next, I would like to introduce some important members in the conference to you. First of all, I greatly appreciate for the program chair, Dr. Kyung-hee Kang and all the program committee members' assistances. Please give her a big round of applause, Professor Kyung-hee Kang. Also, I would like to express to my sincere gratitude for each of you attending the conference. Furthermore, I would like to express my deepest congratulations on the success of all the attendee's works.

In fact, last year we published about 900 papers in the conference. Among them, lots of selected papers were also published in the Scopus journals and SCIE journals after revising them. I am sure that it has been a great step forward and all our success stories could be attributed to your hard works. In fact, all of you here contribute to making this the best conference. I deeply appreciate for your contributions again.

Lastly, I hope that this conference contributes on exchange of research experiences and culture among all the members of participants. And I wish this conference to be helpful for everyone. Please enjoy the conference and be fruitful. Thank you very much.

General Co-Chair of ICCT 2014

Jong Yun LEE.

Welcoming Address



First, I am glad that the 4th International Conference on Convergence Technology is held in this beautiful city Manila, the Philippines. And, I would like to express my gratitude to all of you who participate in the ICCT 2014 despite your busy schedules. I wish to extend a warm welcome to everyone of you.

I hope that all of you participate actively in the debates on the fields you are interested in, and, if you have some free time, enjoy the beauty of Manila.

This is the forth annual gathering of International Conference on Convergence Technology. The ICTT has grown remarkably. This year, we received over 500 papers on convergence technology from across the world. This conference will be a major gathering leading the change and innovation of convergence technology. I would like to appreciate the president and all the other staff members who have devoted their energies to get this conference to be run organically and efficiently, while maintaining variety and consistency, on the basis of the more evolved and organized system than last year. Above all, I want to thank again from my heart all the members contributed to the current ICCT status and those concerned in sponsors.

I am very proud of having been able to contribute my small ability to the ICTT which has been growing internally and externally. I wish that the ICCT 2014 will be beneficial and precious time for all the members.

Thank You

Program Chair of ICCT 2014
Kyung-hee Kang

Welcoming Address



Greetings of Peace!

I would like to congratulate the Korea Convergence Society for this momentous occasion! Your focus in bringing together professionals engaged in creation of knowledge for the advancement of convergence technologies is truly remarkable. I also laud your efforts in providing avenues for these researches to publish and, in the process, allowing the public access to new knowledge.

Thank you for inviting me to be part of your event and I shall see you all in Manila!

A handwritten signature in cursive script, reading "Br. Narciso Erguiza, Jr.".

Br. Narciso Erguiza, Jr. FSC
President, De La Salle Araneta University

Congratulatory Address



Message from the President

In the confusing cacophony of information in the era of the knowledge explosion, it is heartening to note the KCS sifts through the maze and enables academics and professionals to acquire useful and latest technology information in a variety of scientific disciplines. I take pride and pleasure in greeting the organizers and stakeholders of the International Conference on Science and Technology. The noble effort of convening specialists and experts from the industry, academe, government and other vital agencies of science and technology is a testament to the desire of man to better his lot and invest in the future trying to make it free of the ignorance and avoidable miseries of the present. I am also elated that eighteen faculty members of Bulacan State University are presenting their research papers during the prestigious event.

Journals inform the world of the latest advances in knowledge and technology that leads to new processes and products beneficial to mankind. International conferences and scientific meetings provide the opportunity for minds to meet and learn. Indeed, the world is a better place because of these pursuits and undertakings.

My heartfelt congratulations.

A handwritten signature in blue ink, appearing to be 'M. De Jesus', written on a light blue background.

Dr. Mariano C. De Jesus
President, Bulacan State University

Welcoming Address



As a General Co-Chair of the 2014 International Conference on Convergence Technology, it is my great honor to welcome you and wish you both, professional success at the conference, and a great time in the beautiful Manila, Philippines.

In the new global economy, where information technologies and services will be pervasive and touching all aspects of our life and economy, many challenges and opportunities for innovative applied research will need to be developed. I am confident that this conference will address the research challenges brought by the convergence of many different technologies and will provide a great forum for convergence researchers and practitioners to present their results, exchange new ideas, and find new directions in applied research.

I would like to thank an international team of reviewers, who did a superb job in reviewing and selecting high-quality papers, which will be presented at the conference.

On behalf of the organization committees, we extend our invitation to our colleagues to join us in developing and presenting the latest and greatest convergence technologies at ICCT conferences.

Thanks you.

Salim Hariri, UA SITE Director,
DNSF I/UCRC Center for Cloud and Autonomic Computing, University of Arizona

Program for the 4th ICCT 2014

• Wednesday July 2, 2014

Time	Content
16:00~18:00	Editorial Board meeting(Headquarters)

• Thursday July 3, 2014

Time	Content					
09:00~10:00	Registration(Lobby)					
Oral Presentation						
	Conference Room 1 (RUBY)	Conference Room 2 (OPAL)	Conference Room 3 (SAPPHIRE)	Conference Room 4 (JADE)	Conference Room 5 (ONYX)	Conference Room 6 (EMERALD)
10:00~11:00	Session 1-A	Session 2-A	Session 3-A	Session 4-A	Session 5-A	Session 6-A
11:00~11:10	Coffee Break					
11:10~12:10	Session 1-B	Session 2-B	Session 3-B	Session 4-B	Session 5-B	Session 6-B
12:10~13:00	Lunch Time					
13:00~14:20	Session 1-C	Session 2-C	Session 3-C	Session 4-C	Session 5-C	Session 6-C
14:20~14:30	Coffee Break					
14:30~15:50	Session 1-D	Session 2-D	Session 3-D	Session 4-D	Session 5-D	Session 6-D
15:50~16:00	Coffee Break					
16:00~17:20	Session 1-E	Session 2-E	Session 3-E	Session 4-E	Session 5-E	Session 6-E
17:20~20:00	Banquet and Plenary Session					

• Friday July 4, 2014

Time	Content					
09:00~10:00	Registration(Lobby)					
Oral Presentation						
	Conference Room 1 (RUBY)	Conference Room 2 (OPAL)	Conference Room 3 (SAPPHIRE)	Conference Room 4 (JADE)	Conference Room 5 (ONYX)	Conference Room 6 (EMERALD)
10:00~12:00	Session 1-A	Session 2-A	Session 3-A	Session 4-A	Session 5-A	Session 6-A
12:00~13:00	Lunch Time					
13:00~14:20	Session 1-B	Session 2-B	Session 3-B	Session 4-B	Session 5-B	Session 6-B
14:20~14:30	Coffee Break					
14:30~15:50	Session 1-C	Session 2-C	Session 3-C	Session 4-C	Session 5-C	Session 6-C
15:50~16:00	Coffee Break					
16:00~17:20	Session 1-D	Session 2-D	Session 3-D	Session 4-D	Session 5-D	Session 6-D

• Saturday July 5, 2014

Time	Content					
09:00~10:00	Registration(Lobby)					
Oral Presentation						
	Conference Room 1 (RUBY)	Conference Room 2 (OPAL)	Conference Room 3 (SAPPHIRE)	Conference Room 4 (JADE)	Conference Room 5 (ONYX)	Conference Room 6 (EMERALD)
10:00~11:20	Session 1-A	Session 2-A	Session 3-A	Session 4-A	Session 5-A	Session 6-A
11:20~11:30	Coffee Break					
11:30~12:40	Session 1-B	Session 2-B	Session 3-B	Session 4-B	Session 5-B	Session 6-B
12:40~13:00	Closing Ceremony					

Oral Presentation

Thursday July 3, 2014

Session 1-A

Chair Gyoo-Soo Chae(Baekseok University)

● 10:00~11:00

Thursday July 3, 2014

01. IT-01_An Authentication System for Safe Transmission of Medical Information / 1
Woo-Sik BAE(Ajou Motor College, Korea), Kun-Hee Han(Baekseok University, Korea), Seung-Hee Lee(Kumoh National Institute of Technology, Korea)
02. IT-06_Early Detection of Infection Challenged Orally with Salmonella typhimurium and E. coli Using Thermal Images in Pigs / 3
Md. Manirul Islam(Sunchon National University, Korea), Sonia Tabasum Ahmed(Sunchon National University, Korea), Hong-Seok Mun(Sunchon National University, Korea), Chul-Ju Yang(Sunchon National University, Korea)
03. IT-07_An Indoor Location Tracking Using Wireless Sensor Networks Cooperated with Relative Distance Fingerprinting / 5
Youn-Sik Hong(Incheon National University, Korea), Sung-Hyun Han(Incheon National University, Korea), Saemina Kim(Incheon National University, Korea), Ki Young Lee(Incheon National University, Korea)
04. IT-10_A Study on the compression method for high-speed transfer / 7
Geunho Lee(Jeonju University, Korea), Sunwoo Ko(Jeonju University, Korea), Sootae Kwon(Jeonju University, Korea), Yalin Wu(Jeonju University, Korea)
05. IT-11_The Design of RFID Adaptor for Data Interoperation and Event Processing in Internet of Things / 9
InA Kim(Chungnam National University, Korea), Moon-Ki Back(Chungnam National University, Korea), Woo-Seung Jo(Chungnam National University, Korea), Hyung-Jun Yim(Chungnam National University, Korea), Kyu-Chul Lee(Chungnam National University, Korea)
06. IT-13_Optimal Voltage Stabilization Method of Distribution System Using the Battery Energy Storage System (BESS) and Step Voltage Regulator (SVR) / 11
Byungki Kim(Korea Tech, Korea), Daeseok Rho(Koera Tech, Korea), Jongyong Wang(Koera Tech, Korea), Giyoung Kim(Koera Tech, Korea), Seongho Ji(Koera Tech, Korea), Eungsang Kim(KERI, Korea), Jincheol Sin(Polytech, Korea), Kyoungghwa Kim(Polytech, Korea)

Session 2-A

Chair In Young Choi(Catholic University)

● 10:00~11:00

Thursday July 3, 2014

01. W-13-04_Fuzzy Model Based on LBG-FCM Algorithm for LED Control / 13
DongYoon Lee(Joongbu University, Korea), KeonJun Park(Wonkwang University, Korea)
02. W-13-06_Latest Technological Trends of UHD Media and Future Prospect / 15
Honggue Gang(Joongbu University, Korea)
03. W-13-10_Analysis of the Voting Behavior of Voters and Factors for Recognizing and Deciding Candidates Prior to the Local Election on June 4, 2014 / 17
Man Ki Kim(Namseoul University, Korea), Su Bean Kim(Yonsei university, Korea)

04. W-21-02_Research of Obesity Service Open Framework for Human UX/UI / 19
 JoongKyung Ryu(Daelim University College, Korea), Hoill Jung(Sangji University, Korea), JooChang Kim(Sangji University, Korea), ChanGuen Park(Sangji University, Korea), SeulKi Lee(Sangji University, Korea), SungEun Kim(Sangji University, Korea), Kyungyong Chung(Sangji University, Korea), Roy C. Park(Samsun Technology Research, Korea)
05. W-21-03_Compliance Pattern and Service Utilization with the Glucose Monitoring for Diabetes Patients in Primary Clinics / 21
 Mi Jung Rho(Catholic University, Korea), HunSung Kim(Catholic University, Korea), SeungHo Park(Hanyang University, Korea), KwangSoo Jang(Hanyang University, Korea), BumJoon Park(Hanyang University, Korea), SeokA Hong(Catholic University, Korea), In Young Choi(Catholic University, Korea)

Session 3–A

Chair Chang–Gyu Kim(Gimcheon University)

● 10:00~11:00

Thursday July 3, 2014

01. W-14-01_Mammography dose and dose distribution space inspection / 23
 ChangGyu Kim(Gimcheon University, Korea), MiRan Kim(ChungNam University, Korea)
02. BT-50_Psychological Safety during Simulation Education. / 25
 Milye Baek(Korea National University of Transportation, Korea)
03. W-14-02_The Study of Factors that Affect Successful Aging of the Elderly / 27
 Ye–Jong Lee(Gimcheon University, Korea), ChangGyu Kim(Gimcheon University, Korea)
04. W-14-05_Study on Developing New device for Diagnosis of Knee ligament injury and Evaluating Usefulness / 29
 Sunyoul Seo(Chungnam National University, Korea), ManSeok Han(Kangwon National University, Korea), MinCheol Jeon(Chungnam National University, Korea), YongKyun Kim(Daewon University College, Korea), SeJong Yoo(Konyang University Hospital, Korea), InMo Yang(Eulji University Hospital, Korea), DongKyoon Han(Eulji University, Korea)
05. W-14-06_The Usefulness of Laser Guide on Lung Biopsy under CT Guidance / 31
 MinCheol Jeon(Chungnam National University Hospital, Korea), ManSeok Han(Kangwon National University, Korea), HyunSoo Lim(Chungnam National University, Korea), JaeUk Jang(Chungnam National University Hospital, Korea), SeungYool Lee(Korea Food & Drug Administration, Korea), YongKyun Kim(Daewon University College, Korea)
06. W-14-07_Analysis Factors Associated with Abdominal CT Radiation Doses in General Hospitals in the Daejeon Area / 33
 SeJong Yoo(Konyang University Hospital, Korea), ManSeok Han(Kangwon National University, Korea), MinCheol Jeon(Chungnam National University Hospital, Korea), Seungyool Lee(Chungnam National University, Korea), Sunyoul Seo(Eulji University Hospital, Korea)

Session 4–A

Chair Byoung–Soo Chang(Hanseo University)

● 10:00~11:00

Thursday July 3, 2014

01. OT-01_Transient Responses for Passenger Vehicle with Passive & Active Suspension Systems / 35
Hwan Il Kang(Myongji Univ., Korea), Hwansoo Kang(Dongyang Mirae University, Korea), Hyun Soo Kim(Myongji Univ., Korea)
02. W-17-01_A Study on Securement of Justification for Low Dose Chest Computed Tomography of the Subjects for Health Examination / 37
InGyu You(Hanseo University, Korea), CheongHwan Lim(Hanseo University, Korea)
03. W-17-02_Ultrastructural Characters of Microorganism from Detection in the Vagina Infected Candida albicans / 39
MiSoon Park(Hanseo University, Korea), Byung–Soo Chang(Hanseo University, Korea), CheongHwan Lim(Hanseo University, Korea)
04. W-17-03_A Study on the Exposure Dose of Major Organ in Mammography / 41
DongHee Hong(Hanseo University, Korea), HongRyang Jung(Hanseo University, Korea)
05. W-17-04_A Study of Heart Size and Cardiothoracic Ratio in Chest Radiography with Digital Radiography System / 43
Young–Cheol Joo(Hanseo University, Korea), Chung–Hwan Lim(Hanseo University, Korea)

Session 5–A

Chair MyounJae Lee(BaekSeok University)

● 10:00~11:00

Thursday July 3, 2014

01. W-6-01_Implementation on wolf's hunting patterns in Game / 45
SeungMin Cho(BaekSeok University, Korea), MyounJae Lee(BaekSeok University, Korea), Kyoungnam Kim(Sungkyul University, Korea)
02. W-6-05_A Design of Incremental Feature Vectors Extraction of Lip Shape Using Morphological Information / 47
JongJin Jung(Daejin University, Korea), JungHwan Park(Daejin University, Korea), MinYoung Jung(Daejin University, Korea), Ji–Hoon Kim(Daejin University, Korea), Hyesun SUH(Daejin University, Korea)
03. W-6-07_Semantic-based Rights Expression Model for User Generated Content in DRM Systems / 49
Jungmin Kim(Daejin University, Korea), Panseop Shin(Daejin University, Korea), SunKyung Kim(Daejin University, Korea)
04. W-6-14_An Effective P-Peak Detection Algorithm for HRV Analysis / 51
WenHai Jin(Daejin University, Korea), YunSeok Chang(Daejin University, Korea), Bo Yeon Kim(Hanyang University, Korea)
05. W-6-16_Recognition for the delegation of nursing jobs in Korea / 53
Jihyun Kim(Baekseok University, Korea), Soonook Choi(Baekseok Culture University, Korea), Hearyung Jang(Baekseok University, Korea)

Session 6–A

Chair Castro, Mayleen Dorcas B.(Bulacan State University)

● 10:00~11:00

Thursday July 3, 2014

01. PH-01_Antibacterial Soap from *Nypa fruticans* Wurmb (Sasa) Ethanolic Leaf Extract / 55
De Guzman, D.E.(Bulacan State University, Philippines), Galicia, J.J.M.(Bulacan State University, Philippines), Gatuz, M.S.(Bulacan State University, Philippines), Santiago, M.A.R.(Bulacan State University, Philippines), Yumul, C.S.(Bulacan State University, Philippines), Castro, E.J.D.(Bulacan State University, Philippines), Clemente, R.F.(Bulacan State University, Philippines), Naguiat, E.S.(Bulacan State University, Philippines), Hilario, D.S.(Bulacan State University, Philippines)
02. PH-02_Traditional Fermented Vegetable Products of Bulacan: Potential Source of Probiotics / 61
Richard F. Clemente(Bulacan State University, Philippines), Marian P. de Leon(University of the Philippines–Los Baños, Philippines)
03. PH-03_Stronger Without a Bond:A Qualitative Study on the Coping and Adjustments among Childless Couples / 64
Agnes dR Crisostomo(Bulacan State University, Philippines), Nerie Celine E. Pascual(Bulacan State University, Philippines), Jamaica Agatha Sagun(Bulacan State University, Philippines), Katherine Joy Torres(Bulacan State University, Philippines), Carmela Dawn Yumu(Bulacan State University, Philippines)
04. PH-04_Health Centers Database System with Knowledge-based Medical Diagnostic Guide / 67
Eunice B. Custodio(Bulacan State University, Philippines)
05. PH-05_Online Management System for Research and Development Center of Bulacan State University / 69
Castro, Mayleen Dorcas B.(Bulacan State University, Philippines)
06. PH-06_Surveillance Android: Monitoring System using Mobile Controlled Camera / 71
Ma, Magdalena V. Gatdula(Bulacan State University, Philippines), Marrion V. Monte(Bulacan State University, Philippines), Keith Yves E. Reyes(Bulacan State University, Philippines)

Session 1–B

Chair Eunice B. Custodio(Bulacan State University)

● 11:10~12:10

Thursday July 3, 2014

01. IT-14_Evaluation Algorithm of Energy Storage System using the Secondary Battery / 77
Seungtaek Oh(KOREA TECH, Korea), Daeseok Rho(KOREA TECH, Korea), Jaebeom Park(KOREA TECH, Korea), Jugwang Lee(KOREA TECH, Korea), Dongha Kim(KOREA POLYTECHNICS, Korea), Hongchan Lee(KOREA POLYTECHNICS, Korea)
02. IT-15_Self-Organized Location-Mobility Based Handoff AP Selection Method / 79
Gihyuk Seong(Kyungpook National University, Korea), Youngmi Baek(Kyungpook National University, Korea), Junhynug Kim(Kyungpook National University, Korea), Jihoon Seo(Kyungpook National University, Korea), Uzoh Paul Chiedozie(Kyungpook National University, Korea), Kijun Han(Kyungpook National University, Korea)

03. IT-16_Efficient Pre-scanning Based on AP Information for Fast Handoff in WLAN / 81
Byeongung Kim(Kyungpook National University, Korea), Keuchul Cho(Kyungpook National University, Korea),
Gisu Park(Kyungpook National University, Korea), Jihoon Seo(Kyungpook National University, Korea),
Kijun Han(Kyungpook National University, Korea)
04. IT-20_Transmission System Modeling for Realistic Media Effect Representation / 83
Seokmo Gu(Dongguk University, Korea), Aria Seo(Dongguk University, Korea), Yei-chang Kim(Dongguk University,
Korea)
05. IT-25_Hardware Design to Extract Depth Map From Two Images / 85
Ji-Yong Lee(Kumoh National Institute of Technology, Korea), Young-Hyoung Kim(Kumoh National Institute of
Technology, Korea), Sung-Young Kim(Kumoh National Institute of Technology, Korea), Yong-Hwan Lee(Kumoh National
Institute of Technology, Korea)
06. IT-51_A Prediction Method of Initial Quantization Parameter Considering Temporal Characteristic H264
AVC / 87
Sun-Woo Ko(Jeonju University, Korea), Yalin Wu(Jiangxi University of Science and Technology, Korea)

Session 2-B

Chair Man Ki Kim(Namseoul University)

● 11:10~12:10

Thursday July 3, 2014

01. CT-01_The Control Method for Facial Expressions of a Character Robot Based on PCA / 89
Eun Ho Kim(Korea Institute of industrial Technology, Korea)
02. CT-03_An Analysis of Digital Media Holograms Usage Intentions: An Extension of the Technology
Acceptance Model / 91
HongKun Chin(Kyungnam University, Korea), Jae Young Kim(Namseoul University, Korea)
03. CT-08_A Study on the Regulation Direction of Hybrid Message Form:The Regulation of Embedded
Advertising / 93
Min-wook Choi(Namseoul University, Korea)
04. CT-13_A Study on the Analysis of Crafts Recognition using the Data Mining / 95
Yuna Yi(Jeonju University, Korea), SooTae Kwon(Jeonju University, Korea), SoYoung Chung(Jeonju University, Korea),
SunWoo Ko(Jeonju University, Korea), GeunHo Lee(Jeonju University, Korea)
05. CT-16_Diffusion and support policy programs of K-POP / 97
Jeong-Bea Park(Chungwoon University, Korea)

Session 3–B

Chair Man–Seok Han(Kangwon University)

● 11:10~12:10

Thursday July 3, 2014

01. NT-01_Thin-Film SPP Mode Energy Extraction Layers for Enhancing OLED Luminous Efficiency / 99
Doo Hoon Kim(Soonchunhyang University, Korea), Ho–Nyeon Lee(Soonchunhyang University, Korea)
02. W-14-08_The Study on Respiration-dependent Radiation Doses and Imaging during Chest Radiography with an Active Breathing Coordinator (ABC) System / 101
MinCheol Jeon(Chungnam National University Hospital, Korea), ManSeok Han(Kangwon National University, Korea), Hyun–Soo Lim(Chungnam National University, Korea), JeaUk Jang(Chungnam National University Hospital, Korea), SeJong Yoo(Konyang University Hospital, Korea), SunYoul Seo(Eulji University Hospital, Korea), ChangGyu Kim(Gimcheon University, Korea)
03. W-14-12_Similarity of the aberrations in right and left eyes / 104
SangDeok Lee(Gimcheon University, Sungkyunkwan University, Korea), MinHyuk Kim(Gimcheon University, Korea), ChangGyu Kim(Gimcheon University, Korea)
04. W-14-15_A Comparative Study of Parents' Parenting Attitudes Affecting School Records of Chinese and Korean College Students / 106
SungJoo Park(Gimcheon University, Korea), HyunJoo Jung(Gimcheon University, Korea)
05. W-14-16_The Effect of Problem-Solving Counseling Program on Anger and Subjective Well-being among Juvenile Delinquents / 108
SungJoo Park(Gimcheon University, Korea), KeeDuck Jang(Yeung Jin College, Korea)
06. W-14-18_Spatial dose distribution and exposure dose during lumbar spine / 110
ChangGyu Kim(Gimcheon University Radiological Science, Korea), MiRan Kim(Chung Nam University, Korea)

Session 4–B

Chair Hong–Ryang Jung(Hanseon University)

● 11:10~12:10

Thursday July 3, 2014

01. W-17-05_A Study on the Working Environment and VDT Syndrome of Radiation Technologists Working in the 3D Processing Work / 112
SeungWoon Jeung(Hanseon University, Korea), YoungCheol Joo(Hanseon University, Korea), ChungHwan Lim(Hanseon University, Korea)
02. W-17-06_Measurement of Vena Contracta Width for the Assessment of Severity of Aortic Regurgitation by the Use of Cardiovascular Magnetic Resonance Imaging / 114
WooTaek Lim(Hanseon University, Korea), HongRyang Jung(Hanseon University, Korea)
03. W-17-08_Software Assessment of Reproducibility of CT Equipment Coronary Artery Calcification Score using Phantom / 116
KiJeong Kim(Hanseon University, Korea), HongRyang Jung(Hanseon University, Korea)

04. W-17-09_A Study on the Tissue Nulling Time According to MRI Inversion Time Change / 118
HyunOg Song(Hanseong University, Korea), CheongHwan Lim(Hanseong University, Korea), MinChel Kim(Hanseong University, Korea)
05. W-17-10_A Study on the Appropriate Inspection Distance of Digital X-Ray Imaging Equipment for Diagnosis / 120
YeWon Park(Hanseong University, Korea), CheongHwan Lim(Hanseong University, Korea), OhNam Yang(Hanseong University, Korea)
06. W-17-12_Formulation type of diagnostic ultrasound transmission gel / 122
HyeNam Lee(Wonkwang Health Science University, Korea), CheongHwan Lim(Hanseong University, Korea), JongSeok Lee(Wonkwang Health Science University, Korea)

Session 5-B

Chair Keun-Ho Lee(Baekseok University)

● 11:10~12:10

Thursday July 3, 2014

01. W-4-01_Consulting Scheme for Component of Penetration Testing Environment using Cloud and Virtualization / 124
Chung-Geon Song(Baekseok University, Korea), Keun-Ho Lee(Baekseok University, Korea)
02. W-4-02_A Design of Viewer Drowsiness Detection System Applying Smart Grid Technology / 126
Yun-A Hur(Baekseok University, Korea), Keun-Ho Lee(Baekseok University, Korea)
03. W-4-03_Privacy Leakage Threat in SNS Environment and Countermeasures / 128
Jun-Young Go(Baekseok University, Korea), Keun-Ho Lee(Baekseok University, Korea)
04. W-4-04_A Technique on Capturing the Information on Intelligent Automobile using the Weak Point of GPS-based Ground Wave DMB Updates / 130
Kwang-Jae Lee(Baekseok University, Korea), Bo-Seon Kang(Baekseok University, Korea), Jung-Hoon Kim(Baekseok University, Korea), Keun-Ho Lee(Baekseok University, Korea)
05. W-4-05_A Development Method for Mobile Game User Interface Using Unity 3D / 132
Sung-Su Kim(Wemade Entertainment, Korea), Shin-Jin Kang(Hongik University, Korea), Seok-Hun / Kim(Suwon Women's College, Korea), Soo-Kyun Kim(Paichai University, Korea)
06. W-4-09_A Study on Detection of Intrusion into Automatic Control Signals in Intelligent Vehicles / 134
Kwang-Jae Lee(Baekseok University, Korea), Keun-Ho Lee(Baekseok University, Korea)

Session 6–B

Chair YunJeong Kim(Hanseu University)

● 11:10~12:10

Thursday July 3, 2014

01. W-20-07_A Study on Evaluation of Baby Boomer's Life Redesign Educational Program / 137
HyunJung Kang(Hanseu University, Korea)
02. W-20-09_Experience of relationship between mother-in-law and daughter-in-law among Korean rural married immigrant women With a focus on daughter-in-laws from China, Vietnam and the Philippines who live with their mother-in-laws in Korea / 139
MinJung Kim(Hanseu University, Korea), YunJeong Kim(Hanseu University, Korea)
03. W-20-12_Relative Levels of Parents' Life Satisfaction and their Relationship with Children's Self-esteem, Stress and Parenting Attitude in Multicultural Elementary Schools of Rural Areas / 141
ChangSeek Lee(Hanseu University, Korea)
04. W-20-16_A Study on Cultural Consumption of Korean Adults in the first decade of the 21st Century / 143
EunHee Park(Ewha Womans University, Korea), HyeKyong Choi(Ewha Womans University, Korea)
05. W-20-18_A study on Needs for the Elderly Education of the Baby Boom Generation / 145
Hee Yang(Hanseu University, Korea), Jungran Han(Hanseu University, Korea)
06. W-20-19_The effect of cultural values on caregiving by each generation / 147
YunJeong Kim(Hanseu University, Korea), HyunJung Kang(Hanseu University, Korea)

Session 1–C

Chair Jinkeun Hong(Baekseok University)

● 13:00~14:20

Thursday July 3, 2014

01. IT-32_A Study on the Effect of Mobile Shopping Application Information offering on Shopping Application Preference and Repurchase Intention : Focusing on Frequency of Utilization / 149
Yim Ki-heung(Gwang-Ju Women University, Korea), Kwon Jin-Hee(Chung-Ang University, Korea)
02. IT-36_A Stereoscopic Conversion Method Based on Image Focus-Defocus Analysis / 151
SeungKap Lee(Kwangwoon University, Korea), SangHun Lee(Kwangwoon University, Korea),
YeongPyo Hong(International University of Korea, Korea), JongYong Lee(Kwangwoon University, Korea)
03. IT-45_Robust Feedback Extended Linearization Control for The Time-Varying Nonlinear System with Disturbance / 153
Jong-Yong Lee(Kwangwoon University, Korea), Kye-dong Jung(Kwangwoon University, Korea),
Young Soo Park(Kwangwoon University, Korea), Sang-Hun Lee(Kwangwoon University, Korea)
04. IT-49_Sensor Data Processing for Ubiquitous Systems / 155
Min-Soo Kang(Cheju Tourism College, Korea), Young-Sik Noh(Regional Industry Evaluation Agency, Korea),
Yung-Cheol Byun(Jeju National University, Korea)

05. IT-52_Abstract Syntax Tree Metamodel for SW Visualization / 157
Hyun Seung Son(Hongik University, Korea), Young Soo Kim(NIPA, Korea), Young B.Park(Dankook University, Korea),
Woo Yeol Kim(Daegu National University of Education, Korea), Young Chul Kim(Hongik University, Korea)
06. IT-55_Processing Spatial Data Using Hadoop for Urban Planning / 159
Seung Hyun Park(Kumoh National Institute of Technology, Korea), Byoung-Woo Oh(Kumoh National Institute of
Technology, Korea)
07. W-25-01_A miniaturization method for a printed UHF RFID antenna / 161
Gyoo-Soo Chae(Baekseok University, Korea), Joong-soo Lim(Baekseok University, Korea),
Martin Weaver(Ampheno-Mobile, USA)
08. W-25-02_Propagation Characteristics in IEEE802.15.6 Environment / 163
Jinkeun Hong(Baekseok University, Korea)

Session 2-C

Chair Kiseok Choi(KISTI)

● 13:00~14:20

Thursday July 3, 2014

01. W-1-01_A Method of Extraction of Non-text Contents for Extending the Applicability of National R&D
Reports / 165
Kiseok Choi(KISTI, Korea), kwangnam Choi(KISTI, Korea), Jaesoo Kim(KISTI, Korea)
02. W-1-02_Study on The Definition of Standard Metadata and Its Quality Management Method for Facilitation
of Scientific and Technical Big Data Sharing / 167
Sang Gi Lee(Seoul & KISTI, Korea)
03. W-1-09_Recursive Detection of Abnormal Data based on Data Flow Traceback / 169
Heeseok Jeong(Korea Institute of Science & Technology Information, Korea), Youngjoon Yoon(Korea Institute of Science
& Technology Information, Korea), Kangryul Shon(Korea Institute of Science & Technology Information, Korea)
04. W-1-10_Study on Analysis of Utilization of Science & Technology Statistics Indicators / 171
Jungho Seok(Korea Institute of Science & Technology Information, Korea), JaeSoo Kim(Korea Institute of Science &
Technology Information, Korea), Yong-Ki Kim(Korea Institute of Science & Technology Information, Korea),
Kwang-Nam Choi(Korea Institute of Science & Technology Information, Korea)
05. W-1-15_A study on a verification and certification process for analysis result of the R&D information
/ 173
Min-Woo Park(KISTI, Korea), Nam-Gyu Kang(KISTI, Korea), Won-Kyun Joo(KISTI, Korea), Tae-Hyun Kim(KISTI, Korea),
Myung-Seok Yang(KISTI, Korea), Kwang-Nam Choi(KISTI, Korea)
06. W-1-16_Automatic Subject Classification of Korean Journals based on KSCD / 175
MuYeong Kang(KISTI, Korea), Byungkyu Kim(KISTI, Korea), Jae-Do Shin(ChungNam National University, Korea)
Seon Heui Choi(KISTI, Korea)

07. W-1-19_The VOC category analysis using NPS investigation / 177
Sang-kuk Kim(Korea Institute of Science and Technology Information, Korea), Cheol-joo Chae(Korea Institute of Science and Technology Information, Korea), Jae-sung Kim(Korea Institute of Science and Technology Information, Korea), Sung-soo Ahn(Korea Institute of Science and Technology Information, Korea)
08. W-3-01_An Analysis of the Effect of Joint Research Networks on the Diffusion of Knowledge: Focusing on the renewable energy field / 179
Dae-hyun Jeong(Korea Institute of Science & Technology Information, Korea), Young-il Kwon(Korea Institute of Science & Technology Information, Korea), Yeong Ho Moon(Korea Institute of Science & Technology Information, Korea)

Session 3-C

Chair Maria Jenina A. Tongol(Bulacan State University)

● 13:00~14:20

Thursday July 3, 2014

01. BT-04_Medication Activity Frequency, Competency and Educational Needs Among Nurses / 181
Yun-Jeong Kim(Pai Cai University, Korea), Mi-Ja Kim(Pai Cai University, Korea), Hee-Suk Sim(Pai Cai University, Korea)
02. BT-07_A Study on the Subjectivity about RN-BSN Student's Resilience / 183
Jin-Hui Cho(Baekseok Culture University, Korea), Yun-Jeong Kim(PaiChai University, Korea)
03. BT-11_The effects of supervisor support, emotional exhaustion, and sense of personal accomplishment on hospital nurse turn over intention / 185
Eunja Yeun(Konkuk University, Korea), Heejeong Kim(Namseoul University, Korea)
04. BT-29_Relationship between Oral Health Behavior and Dental Disease / 187
Youn-Soo Shim(Sunmoon University, Korea), So-Young Park(Wonkwang University, Korea)
05. BT-43_Development of superhydrophobic surface for medical textile / 189
Youn-Soo Shim(Sunmoon University, Korea)
06. BT-44_Effect of in-office bleaching application on the color, microhardness and surface roughness of five esthetic restorative materials / 191
So-Young Park(Wonkwang University, Korea), Youn-Soo Shim(Sunmoon University, Korea), Su-Young Lee(Namseoul University, Korea)
07. BT-45_Reminerization effect of fluoride gel and solution on artificial caries lesions: a quantitative light-induced fluorescence-digital (QLF-D) study / 193
Su-Young Lee(Namseoul University, Korea), Young-Sik Cho(Namseoul University, Korea), Soon-Ryun Lim(Namseoul University, Korea)
08. BT-49_A Study on Medical Treatment Recommending Service using SOM / 195
Young Sung Cho(Chungbuk National University, Korea), Keun Ho Ryu(Chungbuk National University, Korea), Nak Hyeon Choi(Chungbuk National University, Korea), Seon-phil Jeong(BNU-HKBU United International College, Korea)

01. OT-02_A study of effect according to upper- and down pump operation considering backwater / 197
Yang Ho Song(Hanbat National University, Korea), Taek Min Kim(Hanbat National University, Korea),
Moo Jong Park(Hanseu University, Korea), Jung Ho Lee(Hanbat National University, Korea)
02. OT-03_Selection Method for Urban Watershed with Medium and Small Stream Using Land Use / 199
Chae Heon Lim(Hanseu University, Korea), Young Seok Song(Hanseu University, Korea), Ik Hwan Kim(Hanseu
University, Korea), Moo Jong Park(Hanseu University, Korea)
03. OT-05_The Effect of Personality and Situational Factors on Learning Outcomes in a Blended
Communication Course / 201
Jin-Young Kim(Ulsan National Institute of Science and Technology, Korea)
04. OT-08_Hit Probability for Combat Vehicle with Passive & Active Suspension Systems / 203
Hwan Il Kang(Myongji Univ., Korea), Kang Park(Myongji Univ., Korea), Sang Yeong Choi(Myongji Univ., Korea),
Jae Jung Pyun(Defense Research Agency, Korea), Hyun Soo Kim(Myongji Univ., Korea), Jae Bok Song(Myongji Univ.,
Korea)
05. OT-14_The Prosodic conditions in Robot' TTS Assisted English Learning for Children / 205
Jiyoung In(Chungnam National University, Korea), Jeonghye Han(Cheongju National University of Education)
06. OT-15_Social Distance of Children in Robot Assisted Learning / 207
Jeonghye Han(Cheongju Nat' I Univ. of Education, Korea), Seongwon Lee(Chung-Buk Nat' I Univ. Korea),
Sihoon Lee(Cheongju Nat' I Univ. of Education, Korea), Satbyeol Kang(Cheongju Nat' I Univ. of Education, Korea),
Eunjeong Choe(Korea National University of Education, Korea)
07. OT-16_New Trajectory of Direct Fire Gun Systems / 209
Hwan Il Kang(Myongji Univ., Korea), Kang Park(Myongji Univ., Korea), Sang Yeong Choi(Myongji Univ., Korea),
Jae Jung Pyun(Defense Research Agency, Korea), Hyun Soo Kim(Myongji Univ., Korea), Jae Bok Song(Myongji Univ.,
Korea)
08. OT-17_Optimal Design Framework of Vertical Gun Jump Parameter for Hit Probability / 211
Hwan Il Kang(Myongji Univ., Korea), Kang Park(Myongji Univ., Korea), Sang Young Choi(Myongji Univ., Korea), Jae Jung
Pyun(Defense Research Agency, Korea), Hyun Soo Kim(Myongji Univ., Korea), Jae Bok Song(Myongji Univ., Korea)

01. W-4-14_A Comparison of Pulse Diagnosis in Oriental and Western Medicine / 213
Kyungwon Kim(Daegu Haany University, Korea), Woogwun Na(Korea University, Korea)

02. W-4-19_Effects of Participation in Volunteering Activities on Nursing Professionalism and Self-Esteem among Nursing Students in Korea / 216
Soyoun Yim(Baekseok University, Korea)
03. W-4-20_The perceptions and attitudes of nursing students for the international development cooperation (IDC) / 218
Sun Young Park(Baekseok University, Korea), Heejeong Kim(Baekseok University, Korea)
04. W-4-21_Anxiety, Depression, and Cognitive function of Community-dwelling elderly in South Korea / 220
Heejeong Kim(Baekseok University, Korea), Sun Young Park(Baekseok University, Korea)
05. W-4-31_Security Threats and Attack Scenarios for Various Authentication Systems / 222
Kyungsil-Kim(Baekseok University, Korea), Keun-Ho Lee(Baekseok University, Korea)
06. W-4-35_Security Requirements and Security Threats of Wireless Charging using Magnetic Resonance in Mobile Devices / 224
Hyun-Joo Jung(Baekseok University, Korea), Ken-Ho Lee(Baekseok University, Korea)
07. W-4-36_Quadratic approximation of $\sqrt{1-v^2}$ using Maclaurin series and its error analysis / 226
SangJoong Lee(Seoul National University of Science and Technology, Korea)
08. W-4-37_Minimal length of the straight line crossing right-angled edge via a specific point / 228
SangJoong Lee(Seoul National University of Science and Technology, Korea)

Session 6-C

Chair Chang Seek Lee(Hanseok University)

● 13:00~14:20

Thursday July 3, 2014

01. PH-07_Utilization of Recyclable Materials for the Production of Light Transmitting Concrete / 231
Cecilia A. Geronimo(Bulacan State University, Philippines), John Benedict N. Cabilin(Bulacan State University, Philippines)
02. PH-08_Rechargeable Quad Port USB File Transfer Device / 234
Monaliza S. Jimenez(Bulacan State University, Philippines), William G. Alfonso Jr.(Bulacan State University, Philippines), Axl Rose S. Landicho(Bulacan State University, Philippines), Karissa Mae D. Madarang(Bulacan State University, Philippines), John Harry M. Magtoto(Bulacan State University, Philippines), Jaime Jr. DG. Rodriguez(Bulacan State University, Philippines), Maynard L. Santos(Bulacan State University, Philippines)
03. W-20-01_Study on the Predictors of Suicide High-Risk Group / 239
Chang Seek Lee(Hanseok University, Korea), YunJeong Kim(Hanseok University, Korea)
04. W-20-02_The relation between factors of disability change and life satisfaction in the physically disabled / 241
YunJeong Kim(Hanseok University, Korea), HyunJung Kang(Hanseok University, Korea)
05. W-20-03_Relation between Collectivism and Suicidal Ideation in Old Age / 243
YunJeong Kim(Hanseok University, Korea), SangJin Lee(Hanseok University, Korea), YoungJun Park(Hanseok University, Korea)

06. W-20-04_The Effect of Caregiving Stress on Depression among Korean Married Adult children / 245
YunJeong Kim(Hanseu University, Korea), JinAh Chung(Hanseu University, Korea), HyunSu Ka(Hanseu University, Korea)
07. W-20-05_The effect of human capital and social capital on cultural capital of the Korean elderly / 247
YunJeong Kim(Hanseu University, Korea), HyeoRyun Kang(Hanseu University, Korea), HyunJung Kang(Hanseu University, Korea)
08. W-20-06_The effect of filial piety and intimacy on caregiving stress among Chinese adult married children: Focused on whether living with their parents / 249
YunJeong Kim(Hanseu University, Korea), HyunJung Kang(Hanseu University, Korea), JongIn Kim(Hanseu University, Korea)

Session 1-D

Chair Sung Tai Kim(Cheongju University)

● 14:30~15:50

Thursday July 3, 2014

01. W-15-01_Decision Factors for Supplier Selection / 251
HyunGi Hong(Cheongju University, Korea)
02. W-15-02_Application of Analytic Hierarchy Process for Factor-Measuring of Mobile-Healthcare / 253
JeRan Chun(Daejeon Health Sciences College, Korea)
03. W-25-03_Sensor Web Architecture based on GIS for Reactive Environmental Monitoring / 255
Yeon-Jun An(InfoMind, Inc., Korea), Do-Hyeun Kim(Jeju National University, Korea), Marie Kim(Eletronics & Telecommunication Research Institute, Korea), Hyo-Chan Bang(Eletronics & Telecommunication Research Institute, Korea)
04. W-25-04_Analysis of ARM Jamming with Two Radar Decoys / 257
Joong-soo Lim(Baekseok University, Korea), Gyoo-Soo Chae(Baekseok University, Korea)
05. W-26-01_A Study on the Nursing Student with Academic Self-efficacy, Motivation and Career Aspiration / 259
Min-Suk Kim(Baekseok Culture University, Korea), Soon-Young Yun(Baekseok Culture University, Korea)
06. W-26-02_Inpatient Hospital Service Satisfaction Research / 261
Soon-Young Yun(Baekseok University, Korea), Min-Suk Kim(Baekseok University, Korea)
07. W-26-03_Effects of Self-esteem and Empathy on Academic Resilience in Nursing Students / 263
Myoung-Jin Kwon(Daejeon University, Korea), Sung-Yun Ahn(Daejeon Institute of Science and Technology, Korea), Keum-Sook Kim(Daejeon Institute of Science and Technology, Korea)

Session 2-D

Chair Ilhyung Lee(KISTI)

● 14:30~15:50

Thursday July 3, 2014

01. W-3-02_Comparing Analysis Study of Centrality Indices Using Paper Information on Secondary Battery / 265
Young-il Kwon(Korea Institute of Science & Technology Information, Korea), Dae-hyun Jeong(Korea Institute of Science & Technology Information, Korea), Yeong Ho Moon(Korea Institute of Science & Technology Information, Korea)
02. W-3-03_The Market Trend Analysis and Prospect for Mobile Phone Antennas / 267
Taehoon Kwon(KISTI, Korea), Joon Woo Lee(KISTI, Korea)
03. W-3-04_The Recent Patent Trend Analysis of Stem Cells / 269
Taehoon Kwon(KISTI, Korea), Joon Woo Lee(KISTI, Korea), Eun Kyung Chung(KISTI, Korea)
04. W-3-06_The recent patent analysis and industrial trend of 3D printing / 271
Ilhyung Lee(KISTI, Korea), YoungGi Kim(GISANG, Korea)
05. W-3-07_A study on analysis of convergence trends between industries using network structure of input-output tables / 273
We Shim(Korea University of Science and Technology, Korea), Yeong-ho Moon(KISTI, Korea), Oh-jin Kwon(KISTI, Korea)
06. W-3-09_Investigation into Accomplishment from Information Analysis Service / 275
Jun-Hwan Park(KISTI, Korea), Ho-Shin Lee(KISTI, Korea), Hyuk Hahn(KISTI, Korea), Bang Rae Lee(KISTI, Korea), Youn-Chong Kim(Yong In University, Korea), Yeong-Ho Moon(KISTI, Korea)
07. W-3-13_A study on the management of the expert group for facilitating the SMEs growth / 277
Hye Jin Cho(Korea Institute of Science and Technology Information, Korea), Eun-ju Kim(Korea Institute of Science and Technology Information, Korea)
08. W-3-14_A study on molecular diagnostics market entry strategies through a comparison of global and Asian market trend / 279
Ye Lim Jung(Korea Institute of Science and Technology Information, Korea), Yun Jeong Choi(Korea Institute of Science and Technology Information, Korea)

Session 3-D

Chair MyungSeong Yim(Sahmyook University)

● 14:30~15:50

Thursday July 3, 2014

01. W-9-01_Factor Analysis for Exploratory Research / 281
MyungSeong Yim(Sahmyook University, Korea)
02. W-9-02_A Study on the Acceptance Factors and Discrimination of General Purpose Technology / 283
Sang Hyun Lee(Sahmyook University, Korea), TaeSeok Jeong(Sahmyook University, Korea), KwangHyun Jho(Sahmyook University, Korea)

03. W-9-03_A Study on the Relationship between Servant Leadership and Performance Measures / 285
TaeJong Leem(Sahmyook University, Korea), SangWan Lee(Dong-A University, Korea)
04. W-9-04_The Role of IT industry in Korean Economy: Using Input-Output Analysis / 287
Yong Jae Shin(Sogang University, Korea), SungWook Choi(Sahmyook University, Korea)
05. W-9-05_The Conditions of an Optimal Pillow for Sleep Quality: A Theoretical Review / 289
Jun Hyuck Park(Sahmyook University, Korea), JongEun Yim(Sahmyook University, Korea)
06. W-9-07_EEG-feedback intervention improve balance in stroke survivor / 291
Wonjae Choi(Sahmyook University, Korea), Seungwon Lee(Sahmyook University, Korea), Junhyuck Park(Sahmyook University, Korea)
07. W-9-08_The developments of telephone follow-up management protocol and the effects of its application for disabled epileptic patients having dental treatment under ambulatory general anesthesia / 293
MiSeon Kim(Sahmyook University, Korea), HyeonCheol Jeong(Sahmyook University, Korea)
08. W-9-09_The Effect of Social Support of Chronic Mental Patients on Self-Care Capacity / 295
KyoungSun Jeon(Sahmyook University, Korea), HyeonCheol Jeong(Sahmyook University, Korea)

Session 4-D

Chair Weon-Hee Moon(Daejeon Health sciences college)

● 14:30~15:50

Thursday July 3, 2014

01. W-26-04_Analysis of the Literature on Terminal Cancer Patients' Quality of Life in Korean / 297
Young-Ju Kim(Daejeon Health Sciences College, Korea), Sung-Yun Ahn(Daejeon Institute of Science and Technology, Korea)
02. W-26-06_Effects of App-Based Hand Hygiene Monitoring System on Usability and Compliance in Health Care Workers / 299
Weon-Hee Moon(Daejeon Health Sciences College, Korea), Mi-JA Kim(Pai Chai University, Korea)
03. W-26-07_Breastfeeding Rates and Affecting Factors in Metropolitan City / 301
Hyun-Li Kim(Chungnam National University, Korea), Jae-Ran Lim(Daejeon Health Sciences College, Korea)
04. W-26-08_Maternal Health Status and Behaviors of Immigrant Women / 303
Jae-Ran Lim(Daejeon Health Sciences College, Korea), Mi-Sook Jung(Chungnam National University, Korea), Hyun-Li Kim(Chungnam National University, Korea)
05. W-26-10_Effects of Academic Resilience, Self-efficacy and Depression on University Life Adjustment in Korean Students / 305
Weon-Hee Moon(Daejeon Health Sciences College, Korea), Myoung-Jin Kwon(Daejeon University, Korea), Kil-Soo Chung(Kyung-in Women's University, Korea)
06. W-26-11_Systematic Review of the Literature on Simulation-based Learning in Korean Nursing Education-Focused on Respiratory and Emergency Care- / 307
Young-Ju Kim(Daejeon Health Sciences College, Korea), Weon-Hee Moon(Daejeon Health Sciences College, Korea), Sung-Yun Ahn(Daejeon Institute of Science and Technology, Korea)

07. W-26-12_Simulation-based Learning in Korean Nurse Education: Systematic Review / 309
Weon-Hee Moon(Daejeon Health Sciences College, Korea), Young-Ju Kim(Daejeon Health Sciences College, Korea),
Sung-Yun Ahn(Daejeon Institute of Science and Technology, Korea)
08. W-26-13_The Relation between Cognitive Category and Depression in the Elderly with Mild Cognitive
Impairment / 311
Weon-Hee Moon(Daejeon Health Sciences College, Korea), Myoung-Jin Kwon(Daejeon University, Korea)

Session 5-D

Chair Richard F. Clemente(Bulacan State University)

● 14:30~15:50

Thursday July 3, 2014

01. W-22-01_A New Orthotropic Yield Criterion For Fiber-Reinforced Composite Materials / 313
GyuSei Yi(Sunmoon University)
02. W-22-02_Robust Supply Chain Planning for High-Tech Manufactures Under Uncertainty / 315
HyunJoon Shin(Sangmyung University)
03. W-22-03_Portfolio Selection Strategies for Chemical Corporations Considering Managerial Efficiency and
Growth Potential / 317
HyunJoon Shin(Sangmyung University)
04. W-22-04_A Simulation Model of Fading Wireless Channels / 319
Kilhwan Kim(Sangmyung University)
05. W-22-05_A Mixed Integer Model for the More Flexible Assembly Line Balance Study / 321
ByoungHoon Moon(Sangmyung University), SeongHoon Choi(Sangmyung University)
06. W-22-06_A Study on Inelastic Lateral Torsional Buckling Strength Trends of Doubly and Singly Symmetric
Stepped Beams with Five Loadings / 323
Albert Surla(Sangmyung University, Korea), Jerome C. San Juan(Sangmyung University, Korea),
Hannah Reyno(Sangmyung University, Korea), JongSup Park(Sangmyung University, Korea)
07. W-22-07_A Study on Effects of Cross Frames on Global Buckling Strengths of Curved Two I-Girders
Systems / 325
Albert Surla(Sangmyung University, Korea), JongSup Park(Sangmyung University, Korea), KeeSei Lee(Korea University,
Korea), YoungJong Kang(Korea University, Korea)
08. W-22-08_A Numerical Study to Evaluate the Behavior of Sewage Pipe Renewal Method Using Finite
Element Analysis / 327
Jerome C. San Juan(Sangmyung University, Korea), Albert Surla(Sangmyung University, Korea),
JongSup Park(Sangmyung University, Korea), SeongKyum Kim(Kongju University, Korea),
KwanHo Lee(Kongju University, Korea)

01. PH-09_The Estimation of Organic and Inorganic Soil Amendments Proportion for Optimal Agricultural Yield using Linear Programming / 329
Erwin dR. Magsakay(Bulacan State University, Philippines), Nasher G. Jimenez(Bulacan State University, Philippines), Elmer P. Dadios(De La Salle University, Philippines)
02. PH-10_Energy Management System for High Current Loads / 333
Allen N. Maroma(Bulacan State University, Philippines), Engr. Bernardo A. Pangilinan(Bulacan State University, Philippines)
03. PH-11_DEVELOPMENT OF CENTRICS: AN INTERACTIVE LEARNING SOFTWARE FOR CENTROIDS / 336
SHERYL V. BALANAY(Bulacan State University, Philippines), ANGELIE F. ESTEBAN(Bulacan State University, Philippines), MARK WILSON Z. FRANCISCO(Bulacan State University, Philippines), ANGELA B. SAN JOSE(Bulacan State University, Philippines), YOLANDA C. ROBERTO(Bulacan State University, Philippines)
04. W-5-01_Countermeasure of DNS Cyber Shelter for DDoS attacks / 340
Sunghyuck Hong(Baekseok University, Korea)
05. W-5-03_Three Region Partitioning Method of Loops with Irregular Dependences / 342
Sam Jin Jeong(Baekseok University, Korea)
06. W-5-09_Case Study on Psychological and Spiritual Conflict of Excessive User of Smartphone – Focused on Students of Christian University – / 344
Ki Sook Ko(BaekSeok University, Korea)
07. W-5-10_The reliability and validity of PD measurement in high myopia / 346
Hyunjin Oh(Baekseok culture university, Korea), Hayoung Doo(Jeonbuk Science College, Korea)
08. W-5-11_The analysis of predictive astigmatism in young ametropia / 348
Hyunjin Oh(Baekseok culture university, Korea)

01. W-15-03_The Performance of Hospital Customer Relationship Management System / 350
Je Ran Chun(Daejeon Health Sciences College, Korea), LarkSang Kim(Cheongju University, Korea)
02. W-15-04_IFRS Adoption and audit firm replacement in Korea / 352
HyunTaek Oh(Cheongju University, Korea)
03. W-15-05_Does the US Need An Educational Reform for Economic Growth? / 355
YoungBae Kim(Cheongju University, Korea), Chosee Jung(Cheongju University, Korea)

04. W-15-07_A Comparative Study on Cash Holdings of ICT Industry and Its Implications / 357
MiLim Chon(Cheongju University, Korea), JungMi Choi(Cheongju University, Korea)
05. W-15-08_A Tradeoff between National Income and Regional Growth: Evidence from the EU / 359
YoungBae Kim(Cheongju University, Korea)
06. W-15-09_The Effect of Stock Option Grant and Exercise on CSR Activities / 361
Sang yun Park(Konyang University, Korea), MiLim Chon(Cheongju University, Korea)
07. W-15-10_The Cost Behavior and Agency Problems / 362
Milim Cheon(Cheongju University, Korea), Jeongmi Choi (Cheongju University, Korea)
08. W-15-11_Estimation of Congestion Rate of Local Public Goods in Korea / 364
Sing Tai Kim(Cheongju University, Korea)

Session 2–E

Chair Han–Jin Cho(Far East University)

● 16:00~17:20

Thursday July 3, 2014

01. W-12-01_The design of Multi-contact low water level measurement sensor network system / 366
KiBong Kim(Daejeon Health Science College, Korea), SeungWon Sue(Case4You.co.Ltd, Korea)
02. W-12-03_A study on the OpenShift Paas Platform / 368
CheulWoo Ro(Silla University, Korea), SangHwa Lee(1AIT Co.LTD, Korea)
03. W-12-04_Factors Influencing the SNS User's Sustainable Use / 370
SangHo Lee(Kyungsung University, Korea)
04. W-12-10_Temperature/humidity/food poisoning index management and monitoring system / 372
KiBong Kim(Daejeon Health Science College, Korea), SungHan Lee(Zoit co.Ltd, Korea)
05. W-12-11_A Study on The Mobile Personal Health Record Services / 374
YoonAe Ahn(Korea National University of Transportation, Korea), HanJin Cho(Far East University, Korea)
06. W-12-12_Efficient Security Method Using Mobile Virtualization Technology And Trustzone of ARM / 376
Yongho Kang(R2soft co.LTD, Korea), Changbok Jang(R2soft co.LTD, Korea), Jooman Kim(Pusan National University, Korea)
07. W-12-14_Digital Panning Shot Generator from Photographs / 378
Kyuman Jeong(Daegu University, Korea), HanJin Cho(Far East University, Korea)
08. W-12-15_A Method For Determining Optimal Connecting Route To Target Person Based On Mutual Intimacy Index / 380
Kimun Keum(R2soft co.LTD, Korea), Sejin Nam(Seoul National University, Korea), Yongho Kang(R2soft co.LTD, Korea), Ohsuk Kwon(Chungnam National University, Korea)

01. BT-01_English Presentation Classes Case Studies of Korean University Students Applying Problem-based Learning Methodolog / 382
Myeong-Hee Shin(Hannam University, Korea), Kwang-Hwan Kim(Konyang University, Korea)
02. BT-02_A study on the relationship of drinking motivation and drinking experience of high school students with their self-efficacy / 384
Jin- Sook Han(Konyang University, Korea), Kwang-hwan Kim(Konyang University, Korea)
03. BT-03_Study on prostate cancer screening programme in a City and province : 2012 / 386
Kyung-hee Kang(Konyang University, Korea), Hye-Jeong Hwang(Konyang Cyber University, Korea)
04. BT-13_Influence of heel heights on trunk muscles in healthy subjects by ultrasonography imaging /388
JinSeop Kim(SunMoon University, Korea), DongYeop Lee(SunMoon University, Korea), JiHeon Hong(SunMoon University, Korea), JaeHo Yu(SunMoon University, Korea), YongHae Park(SunMoon University, Korea), HyoJeong Park(SunMoon University, Korea), DongKwon Seo(Konyang University, Korea)
05. BT-15_The effects of Abdominal Drawing in Maneuver using Real time Ultrasound imaging on Gait in Normal adult / 390
DongYeop Lee(SunMoon University, Korea), JiHeon Hong(SunMoon University, Korea), JaeHo Yu(SunMoon University, Korea), HyungCheon Nam(Kyungbuk College, Korea), SungPil Kim(SunMoon University, Korea), JiHyun Park(SunMoon University, Korea), JinSeop Kim(SunMoon University, Korea)
06. BT-20_Rheumatoid Arthritis and Breast-feeding in Korea: The Fifth Korean National Health and Nutritional Examination Survey (2010-2012, Korea) / 392
Bo Ram Choi(Kyungdong University Department of nursing, Korea), Moon Hee Kwon(Kyungdong University Department of nursing, Korea)
07. BT-37_Metabolic Syndrome Components and Living Habits according to Fasting Blood Sugar measured by Glucometer in Workers / 394
Young-Sook Kwon(Joongbu University, Korea)
08. BT-39_Effects of Reeducation of Core Basic Nursing Skills on Competence, Knowledge and Confidence of Nursing Students / 396
Young-Sook Kwon(Joongbu University, Korea)
09. BT-57_The Effects of Blended Problem-based Instruction for the Academic Achievement / 398
Myeong-Hee Shin(Hannam University, Korea), Eunpyo Lee(Eulji University, Korea)

Session 4–E

Chair De Guzman, D.E.(Bulacan State University)

● 16:00~17:20

Thursday July 3, 2014

01. MT-01_The Effects of Deflection on the Fatigue of Bellows / 400
Jinbong Kim(Hanseu University, Korea)
02. MT-05_Ride Comfort of the Tilting Train on the Transition Curve / 402
Il-Yoon Choi(Korea Railroad Research Institute, Korea), Ju-Hwan Um(Korea Railroad Research Institute, Korea)
03. MT-07_Analysis of Track surface measured by Versine system / 404
Il-Yoon Choi(Korea Railroad Research Institute, Korea)
04. MT-08_Development of 10kW Interior Permanent Magnet Synchronous Generator Considering Variable Load and Speed / 406
Hak-Gyun Jeong(Sunchon National University, Korea), Daekyong Kim(Sunchon National University, Korea), Dong-Seong Kim(Sunchon National University, Korea), Dong-hwa Chung(Sunchon National University, Korea), Kyung-il Woo(Pukyong National University, Korea)
05. MT-09_FEM Based Parametric Analysis of Cogging Torque for Single-Phase Brushless DC Motor with Asymmetric Position Notch / 408
Young-Un Park(Sunchon National University, Korea), Daekyong Kim(Sunchon National University, Korea), Ji-young(SoSunchon National University, Korea), Kyung-il Woo(Pukyong National University, Korea)
06. MT-13_The design and application of GPS surveying robot / 410
Hyun Choi(Kyungnam University, Korea), Kwang-Woo Nam(Kyungsung University, Korea), Tae-Hoon Kim(Surveying & Mapping, Korea)

Session 5–E

Chair Kwang-Kyu Seo(Sangmyung University)

● 16:00~17:20

Thursday July 3, 2014

01. PH-17_International University – Community Cooperation for Environmental Sustainability / 412
Victoria P. Valenzuela(Bulacan State University, Bulacan), Nonita T. Yap(University of Guelph, Canada)
02. PH-18_Patients' Knowledge on Tuberculosis and the Determinants of Treatment Compliance / 415
Cruz, R.C.(La Consolacion University, Philippines), Cabantog, M.J.(Bulacan State University, Philippines), Cruz, J.(Systems Plus College Foundation, Philippines), Gillasper, J.(Nueva Ecija University of Science and Technology, Philippines), Saniel, G.(Population Commission, San Fernando Pampanga, Philippines), Rivera, F.(Bataan Peninsula State University, Philippines), Labastilla, E.(Tarlac State University, Philippines), Gabriel, C.(Ramon Magsaysay Technological University, Philippines) Nuqui, A.(La Consolacion University, Philippines)
03. W-22-09_A Cloud Service Selection Model based on Analytic Network Process / 423
ByungDo Chung(Sungkyunkwan University, Korea), KwangKyu Seo(Sangmyung University, Korea)

04. W-22-10_Development of a Performance Measurement Framework for Cloud Storage Services / 425
Hangoo Jeon(Korea Cloud Service Association, Korea), YoungGi Min(Korea Cloud Service Association, Korea), KwangKyu Seo(Sangmyung University, Korea)
05. W-22-11_Development of Greenhouse Work Management System using a Wireless Barcode System / 427
Youngshik Kim(Sangmyung University, Korea), Beumjun Ahn(Sangmyung University, Korea)
06. W-22-12_Optimal Equipment Operating Patterns of the Steelmaking Process / 429
ChangSik Kim(Sangmyung University, Korea), SeongHoon Choi(Sangmyung University, Korea)
07. W-22-13_A Study on Customer Satisfaction of Corporate from a B2B Industrial Marketing Perspective using a Steel Industry Case / 431
YoungWook Sohn(Sangmyung University, Korea), SeongHoon Choi(Sangmyung University, Korea)

Session 6–E

Chair YoonSu Jeong(Mokwon University)

● 16:00~17:20

Thursday July 3, 2014

01. W-7-11_Adaptation Strategy for Architectural Dynamic Reconfiguration / 433
SungHo Sim(Semyung University, Korea), GuiJung Kim(Konyang University, Korea), SuJin Baek(Baekseok University, Korea)
02. W-7-14_Purchasing Decision Intension in Digital Convergence Device utilizing AHP / 435
Seong-Yoon Kim(Dongguk University, Korea), Jae-Il Yi(Semyung University, Korea), Sang-Jun Lee(Semyung University, Korea)
03. W-16-02_A Study on Smart Workers' Work/Nonwork Boundary Management Strategies / 437
Sangjo Oh(Dongyang Mirae University, Korea), YongYoung Kim(Konkuk University, Korea)
04. PH-12_Dynamic Web Content Management System / 439
Jane Kristine G. Suarez(Bulacan State University, Philippines), Raquel C. Adriano(Bulacan State University, Philippines)
05. PH-13_Natural Vanillin as an Antimicrobial Agent for Minimally Processed Fruit Products / 442
Maria Jenina A. Tongol(Bulacan State University, Philippines)
06. PH-14_Utilization of Light Transmitting Concrete Using Recyclable Materials / 444
Cecilia A. Geronimo(Bulacan State University, Philippines), John Benedict N. Cabilin(Bulacan State University, Philippines)
07. PH-15_Potential of Multi-walled CNT Yarn as Field Emitters for X-ray Application / 447
Edward Joseph D. Castro(Bulacan State University, Philippines), Hyun Suk Kim(Wonkwang University, Korea), Choong Hun Lee(Wonkwang University, Korea)
08. PH-16_AUTOMATED LIQUID SEASONING DISPENSER / 450
Dolly P. Maroma(Bulacan State University, Philippines), Ronaldo Asuncion(Bulacan State University, Philippines)

Oral Presentation

Friday July 4, 2014

01. BT-05_Nurse Education Needs of hospital nurses / 453
Mi-Ja Kim(Pai Cai University, Korea), Yun-Jeong Kim(Pai Cai University, Korea), Hee-Suk Sim(Pai Cai University, Korea)
02. BT-09_Effects of Social Network and Wisdom on the Relationship between Self-esteem and Successful Aging among the Korean Male Elderly / 455
Kim, Hee Kyung(Kongju National University, Korea)
03. BT-10_Comparison study of Self-esteem and Successful Aging according to the Social Network among Male Elders / 457
Kim, Hee Kyung(Kongju National University, Korea)
04. BT-14_The analysis of change in abdominal muscles thickness during various direction-reaching task / 459
JiHeon Hong(SunMoon University, Korea), DongYeop Lee(SunMoon University, Korea), JinSeop Kim(SunMoon University, Korea), DongKwon Seo(Konyang University, Korea), DaWoon Jeong(SunMoon University, Korea), SeYung Heo(SunMoon University, Korea), JaeHo You(SunMoon University, Korea)
05. BT-16_Relation of Pain, Health Status, Malnutrition, Self-transcendence, Social Support and Depression among Low-income Elderly / 461
Hyang Soo Kim(Munhyung College, Korea), Hee Kyung Kim(Kongju National University, Korea), Bok Ja Byun(Daejeon Donggu Public Health Center, Korea)
06. BT-17_Naringenin regulates COX-2 expression Via PI-3K/Akt and MMP-9 activity Via ERK pathway, respectively, in human fibrosarcoma cell line, HT1080 / 463
Seong-Hui Eo(Kongju National University, Korea), Da-young Kim(Kongju National University, Korea), Song-Ja Kim(Kongju National University, Korea)
07. BT-18_Luteolin suppresses NO-induced dedifferentiation and enhances COX-2 expression in rabbit articular chondrocytes / 465
Seong-Hui Eo(Kongju National University, Korea), Song-Ja Kim(Kongju National University, Korea)
08. IT-60_An investigation on the diffraction pattern for a frequency-selective structure by using angular spectrum decomposition method / 467
Min Nyeon Kim(Baekseok University, Korea), Hanns-DiterAberle(FOBA GmbH Elektronik Lasersysteme, Germany)

01. W-4-06_Comparison of Contact-Lens Clearing Solutions for Acanthamoebial Infection In Vitro / 469
Su-Youn Park(Konkuk University, Korea), Suk-Yul Jung(Namseoul University, Korea)

02. W-4-07_Factors affecting depression among Asian female marriage immigrants in South-Korea / 471
Yoен Soo Kim(Baekseok University, Korea)
03. W-4-08_The Comparative Analysis of Behavioral Intention between Internet and Mobile Banking in Multi-channel Environment / 473
Sang-Chul Lee(Korea Christian University, Korea), Kwang-Hyuk Im(PaiChai University, Korea)
04. W-4-10_Health Behaviors and hypertension diagnosed by doctor among Residents in a Local Area / 475
Eunja Yeun(Konkuk University, Korea), Misoon Jeon(Baekseok University, Korea)
05. W-4-11_Motivation and Satisfaction with Voluntary Service Participation by College Students / 477
Misoon Jeon(Baekseok University, Korea), Hyunjeong Kim(Baekseok University, Korea)
06. W-4-12_Awareness Levels of Biomedical Ethics in Undergraduates / 479
Misoon Jeon(Baekseok University, Korea), Hyunjeong Kim(Baekseok University, Korea)
07. W-4-13_Recognition and Attitude of Multicultural Families by Collage Students / 481
Misoon Jeon(Baekseok University, Korea), Hyunjeong Kim(Baekseok University, Korea)
08. W-4-15_The Moderating Effect of Social Mission on Social Enterprise Employee Retention / 483
Eun Jung Lee(Baekseok University, Korea)

Session 3-A

Chair Gwi-Gon Kim(Kumoh National Institute of Technology)

● 10:00~12:00

Friday July 4, 2014

01. IT-02_Design and Implementation of VMS(Video Management System, Korea) Integrated Intelligent Software / 485
O-Byung Kwon(Technical Department of chipwork Co.Ltd, Korea), Kyung-Soo Kim(BaekSeok Culture University, Korea)
02. IT-05_The Software Cost Model of Considering Half-Logistic Distribution Intensity Function of Finite NHPP / 487
Hee-Cheul Kim(Namseoul University, Korea), Kyung-Soo Kim(BaekSeok Culture University, Korea)
03. IT-08_Application Study on Android Application Prototyping Method using App Inventor / 489
Hwansoo Kang(Dongyang Mirae University, Korea), Heechern Kim(Korea National Open University, Korea), Jinhyung Cho(Dongyang Mirae University, Korea)
04. IT-09_Case Study on Efficient Android Programming Education using Multi Android Development Tools / 491
Hwansoo Kang(Dongyang Mirae University, Korea), Jinhyung Cho(Dongyang Mirae University, Korea)
05. IT-21_Hybrid WOM Collection Method for Reputation Rating in Online Community / 493
Seawoo Kim(Soongeui Women' s College, Korea), Soobin Lee(KAIST, Korea), Hwansoo Kang(Dongyang Mirae University, Korea), Jinhyung Cho(Dongyang Mirae University, Korea)

06. IT-23_Dynamic Curator Group Formation for Social Contents Curation / 495
 Jinhung Cho(Dongyang Mirae University, Korea), Hwansoo Kang(Dongyang Mirae University, Korea),
 Seawoo Kim(Soongeui Women' s College, Korea)
07. IT-24_A Framework of Mobile Application Development Tool Based on Object Relational Mapping
 Solution / 497
 Jinhung Cho(Dongyang Mirae University, Korea), Hwansoo Kang(Dongyang Mirae University, Korea)

Session 4-A

Chair Cheul-Woo Ro(Silla University)

● 10:00~12:00

Friday July 4, 2014

01. W-19-01_Impact of Coaches' Servant Leadership on Athletes' Performance / 499
 SungDuck Kim(Baekseok University, Korea), IlGwang Kim(Seowon University, Korea)
02. W-19-02_The Effects of Pilates Training on Pain Level, Lumbar Mobility and Stability of Middle-Aged
 Women with Chronic Low Back Pain / 501
 AnNa Kim(Dongshin University, Korea), SeungKil Lim(Dongshin University, Korea), IlYoung Cho(Joenu University, Korea)
03. W-19-03_Morphological comparison between standardized Jindo dog and Jindo dog for hunting :
 Focusing on Testimonies of experienced breeders / 503
 Il Young Cho(Joenu University, Korea), PeumGuy Choi(Korea Federation Jindo dog for Hunting, Korea),
 SangHyeon Ann(Jeonju Kijeon University, Korea)
04. W-19-04_COMPARISON BETWEEN THE EFFECTS OF TAPING THERAPY AND MASSAGE THERAPY ON
 SHOULDER IN ELDERLY PATIENTS / 505
 Seungwyn Jung(Joenu University, Korea), IlYoung Cho(Joenu University, Korea), SoonKwon Park(Joenu University,
 Korea), KaEun Kim(Joenu University, Korea)
05. W-19-05_KINEMATIC COMPARISON ACCORDING TO THE TRAJECTORY OF IRON SWING IN GOLF
 / 507
 JongChul Park(Korea Armed Forces Athletic Corps, Korea), TaeGyu Kim(Taeneung National Training Center of the
 Korean Olympic Committee, Korea)
06. W-19-06_COMPARISON OF ANAEROBIC FITNESS IN COLLEGE ATHLETES / 509
 JinWon Jeong(Jeonju University, Korea)
07. W-19-07_The effect of Core program Exercise for Lumbar Extensor Strength and Pain of the Patient with
 chronic low back pain / 511
 DaeHun Kim(Kyungdong University, Korea), WanYoung Yoon(Seowon University, Korea)

Session 5–A

Chair Engr. Bernardo A. Pangilinan(Bulacan State University)

● 10:00~12:00

Friday July 4, 2014

01. W-7-01_A Comparative Study on Software Development Productivity by Version of Standard Enterprise EJB / 513
MyeongHo Lee(Semyung University, Korea), Jung Sang Yoo(Gachon University, Korea)
02. W-7-02_Design and Implementation of a Hybrid App-based Movie Reservation System in N-Screen Environment / 515
Myeong Ho Lee(Semyung University, Korea), Jung Sang Yoo(Gachon University, Korea)
03. W-7-03_Framework of Process Mining System Integrating Discrete Event Simulation and Fault Detection Classification Functions / 517
Heedong Hong(Semyung University, Korea), Hyunsoo Lee(Kumoh National Institute of Technology, Korea)
04. W-7-04_Modeling and Development of Real-time Embedded Manufacturing Execution System with Early-warning Detection / 519
Hyunsoo Lee(Kumoh National Institute of Technology, Korea), Heedong Hong(Semyung University, Korea)
05. W-7-05_Innovative Activities and KPI Impact on the KOSDAQ IT Firm Value. -Accounting Perspective - / 521
Aeyoung Park(Kwangwoon University, Korea), Jiyoung Kwak(Semyung University, Korea), Kinam Choi(Semyung University, Korea)
06. W-7-06_Corporate Governance and Green IT investments : Analysis Based Upon Korean Corporate Governance Index(KCGI) / 523
Aeyoung Park(Kwangwoon University, Korea), Jiyoung Kwak(Semyung University, Korea)
07. W-7-07_Proposed Model to Improve Level of Field Quality Control in Roll-type Film Manufacturing Using Notation of Fault Tree Analysis / 525
JaeHo Bae(Hyechon College, Korea), MyeongHo Lee(Semyung University, Korea)
08. W-7-08_The relationship between degree of homogeneity and market segmentation: A quantitative analysis of survey responses / 527
JaeHo Bae(Hyechon College, Korea), MyeongHo Lee(Semyung University, Korea)

Session 6–A

Chair JungKeun Cho(Jeonju University)

● 10:00~12:00

Friday July 4, 2014

01. W-10-01_Acculturation, Perceived Discrimination, and Depression among Korean Nurses in the United States / 529
Young–Mi Jung(Daegu Haany University, Korea), Heeyoung Lee(University of Pittsburgh, USA)

02. W-10-02_Comparative evaluation of absorbed dose between cone beam computed tomography and panoramic radiography in radiological protection point of view / 531
SangTae Kim(Nuclear Safety and Security Commission, Korea), JungKeun Cho(Jeonju University, Korea)
03. W-10-03_The analysis of factors affecting Radon concentration in the building / 533
SangTae Kim(Nuclear Safety and Security Commission, Korea), JungKeun Cho(Jeonju University, Korea)
04. W-10-04_Comparing urban public service using super-efficiency model and statistical testing - Cases using secondary data / 535
KyoungHo Choi(Jeonju University, Korea), HeeJong Kwag(Chonbuk National University, Korea)
05. W-10-05_The Association of Blood Heavy Metal Concentration and Components of Metabolic Syndrome in Korean Male Adults / 537
In-Young Yoo(Jeonju University, Korea)
06. W-10-06_The Effect Factors on the Intake of Health Functional Foods / 539
Mi-Young Chon(Konkuk University, Korea), Jeong-Ah Yoon(Tongmyong University, Korea)
07. W-10-07_The Relationship between Family Communication and Mental Health of Adults in a community - focused on Depression and Anxiety / 541
Jeong-Ah Yoon(Tongmyong University, Korea), Mi-Young Chon(Konkuk University, Korea)
08. W-10-08_Comparative Effectiveness of Taping therapy Versus Compression stocking on Edema, Pain and Fatigue of Lower Extremities in Hospital nurses / 543
Mi-Young Chon(Konkuk University, Korea), Seol-Ah Kang(Jeonju University, Korea)

Session 1-B

Chair Sang Hun Lee(Kwangwoon University)

● 13:00~14:20

Friday July 4, 2014

01. BT-19_De-methylation inducer, 5'-azacytidine regulates dedifferentiation and inflammation via p38 kinase in rabbit articular chondrocytes / 545
Seong-Hui Eo(Kongju National University, Korea), Ju-Hee Kim(Kongju National University, Korea), Song-Ja Kim(Kongju National University, Korea)
02. BT-21_Teachers' Perception on the Relationship Marketing of English Institutes / 547
Keun Huh(Hannam University, Korea), Jaewook Yoo(Konkuk University, Korea)
03. BT-22_Does Health Promotion Climate Positively Impact on the Performance? / 549
Yunsuk Cha(Dong-A University, Korea)
04. BT-23_Modulation of property in oral epithelial cells by insulin / 551
Hwa-Kyung Son(Baekseok University, Korea), Hye-sook Choi(Kyungdong University, Korea), Jeong-Ran Park(Baekseok University, Korea)
05. BT-24_Work-Family Conflict, Perceived Health Status, Fatigue, Health Promotion Behavior and Health related Quality of Life for Married Working Women / 553
Eun Hee Shin(Munhyung College, Korea), Hee Kyung Kim(Kongju National University, Korea)

06. BT-25_Factors influencing Health related Quality of Life among Male Office Workers / 556
Eun Hee Shin(Munhyung College, Korea), Hee Kyung Kim(Kongju National University, Korea)
07. BT-26_Relationship Between Gamma-Glutamyl Transferase(GGT, Korea) Levels and Blood Pressure in Health Checkup Examinees / 558
Taek-Soo Shin(Chungnam National University, Korea), Young-Chae Cho(Chungnam National University, Korea), Seok-Han Yoon(Chungnam National University, Korea)

Session 2-B

Chair Kyung-Yong Chung(Sangji University)

● 13:00~14:20

Friday July 4, 2014

01. W-3-05_Study for Technology Commercialization Ecosystem Models through Case Studies / 560
Yun Jeong Choi(Korea Institute of Science & Technology Information, Korea), Jeongsik Lee(Georgia Institute of Technology, Korea), Jongtaik Lee(Korea Institute of Science & Technology Information, Korea)
02. W-3-08_Selecting Element Technologies in Bio Ethanol by Scientometrics / 562
Daehyeon Lim(Korea Institute of Science and Technology Information, Korea), Yunjeong Choi(Korea Institute of Science and Technology Information, Korea), Hyunsook Roh(Korea Institute of Science and Technology Information, Korea)
03. W-3-10_Study for Main Factors of Technology Commercialization by its Current Process Analysis / 564
Jongtaik Lee(Korea Institute of Science and Technology Information, Korea), Byungcheol Kim(Georgia Institute of Technology), Yun Jeong Choi(Korea Institute of Science and Technology Information, Korea)
04. W-3-11_Analysis of Development Trend of Portable Thin Film SOFC Technologies / 566
Jongtaik Lee(Korea Institute of Science and Technology Information, Korea)
05. W-3-15_A study on Performance of Discovering of Promising business item Program for SMEs / 568
Yun Jeong Choi(Korea Institute of Science and technology Information, Korea)
06. W-3-16_Market and employment potential for Biotechnology industry / 570
Yun Jeong Choi(Korea Institute of Science and technology Information, Korea)
07. W-3-18_The effectiveness analysis of government supporting policy based on SME innovative capability audit tools / 572
JuHwan Seo(Korea Institute of Science and technology Information, Korea), Jong-Ku Son(Korea Institute of Science and technology Information, Korea), Jinny Seo(Korea Institute of Science and technology Information, Korea), Daemyeong Cho(Hanyang University, Korea)

Session 3-B

Chair Ki_Bong KIM(Daejeon Health Sciences College)

● 13:00~14:20

Friday July 4, 2014

01. W-2-04_A study on the determinants of selection of a high performance computing system in the computational science / 574
Namgyu Kim(KISTI, Korea), Hyungjin Lee(KISTI, Korea), Haengjin Jang(KISTI, Korea)
02. W-2-05_A Quick Crash-Recovery Strategy for Scientific Federated Cloud System / 576
Dada Huang(Korea Institute of Science and Technology Information, Korea), Amol Jaikar(Korea Institute of Science and Technology Information, Korea), Gyeong-Ryoon Kim(Korea Institute of Science and Technology Information, Korea), Seo-Young Noh(Korea Institute of Science and Technology Information, Korea)
03. W-2-06_Impact on the network stability of big data center by the configuration of default IP routing / 578
Hyoung woo Park(KISTI, Korea), Il Yeon Yeo(KISTI, Korea), Haengjin Jang(KISTI, Korea)
04. W-2-07_Multiple 4K-Ultra HD Display Wall / 580
Chi Woong Kim(KISTI, Korea), Hee Jun Yoon(KISTI, Korea)
05. W-2-09_Private Data Farm for Global Brain Scientific Research / 582
Myung Lee(Korea Institute of Science & Technology Information, Korea)
06. W-2-10_Slot-based Migration Algorithm in a Virtual Cluster for Space Sharing Environment / 584
Amol Jaikar(Korea University of Science and Technology, Korea), Dada Huang(Korea Institute of Science & Technology Information, Korea), Gyeong-Ryoon Kim(Korea Institute of Science & Technology Information, Korea), Seo-Young Noh(Korea Institute of Science & Technology Information, Korea)
07. W-2-11_Smart Knowledge Sharing System for Cyberinfrastructure / 586
Jin Kim(KISTI, Korea), Sung Yun Yu(KISTI, Korea)

Session 4-B

Chair Seo-Young Noh(KISTI)

● 13:00~14:20

Friday July 4, 2014

01. MT-02_Vertical Transfer Method for Personal Rapid Transit Vehicles / 588
Ju-Hwan Um(Korea Railroad Research Institute, Korea), Rag-Gyo Jeong(Korea Railroad Research Institute, Korea), Sung-Il Seo(Korea Railroad Research Institute, Korea), Yeun-Sub Byun(Korea Railroad Research Institute, Korea), Back-Hyun Kim(Korea Railroad Research Institute, Korea), Seok-Won Kang(Korea Railroad Research Institute, Korea)
02. MT-03_Guideway Design for Personal Rapid Transit Vehicles / 590
Ju-Hwan Um(Korea Railroad Research Institute, Korea), Back-Hyun Kim(Korea Railroad Research Institute, Korea), Rag-Gyo Jeong(Korea Railroad Research Institute, Korea), Seok-Won Kang(Korea Railroad Research Institute, Korea), Yeun-Sub Byun(Korea Railroad Research Institute, Korea)

03. MT-04_Control Module of Vertical Lift for the Personal Rapid Transit (PRT) Vehicle / 592
Baek-Hyun Kim(Korea Railroad Research Institute, Korea), Seok-Won Kang(Korea Railroad Research Institute, Korea), Rak-Gyo Jeong(Korea Railroad Research Institute, Korea), Yeun-Sub Byun(Korea Railroad Research Institute, Korea), Ju-Hwan Um(Korea Railroad Research Institute, Korea)
04. MT-06_Automatic Navigation System based on Magnetic Markers for Personal Rapid Transit Vehicles / 594
Yeun-sub Byun(Korea Railroad Research Institute, Korea), Ju-Hwan Um(Korea Railroad Research Institute, Korea), Rag-gyo Jeong(Korea Railroad Research Institute, Korea), Baek-Hyun Kim(Korea Railroad Research Institute, Korea), Seok-Won Kang(Korea Railroad Research Institute, Korea)
05. MT-10_Development of an Energy System Simulator for a Personal Rapid Transit (PRT) Vehicle / 596
Seok-Won Kang(Korea Railroad Research Institute, Korea), Yeun-Sub Byun(Korea Railroad Research Institute, Korea), Rag-Gyo Jeong(Korea Railroad Research Institute, Korea), Ju-Hwan Um(Korea Railroad Research Institute, Korea), Baek-Hyun Kim(Korea Railroad Research Institute, Korea)
06. MT-11_PRT(Personal Rapid Transit) System / 598
Rag-Gyo Jeong(Korea Railroad Research Institute, Korea), Jin-Yong Mok(Korea Railroad Research Institute, Korea), Seok-Won Kang(Korea Railroad Research Institute, Korea), Ju-Hwan Um(Korea Railroad Research Institute, Korea), Baek-Hyun Kim(Korea Railroad Research Institute, Korea), Yeun-Sub Byun(Korea Railroad Research Institute, Korea)
07. MT-12_A Study on Determination Method of Optimal Horizontal Curve in Railway Alignment / 600
Ju-Hwan Um(Korea Railroad Research Institute, Korea), Il-Yoon Choi(Korea Railroad Research Institute, Korea)

Session 5-B

Chair Heui-Seok Lim(Korea University)

● 13:00~14:20

Friday July 4, 2014

01. W-6-02_Query Processing Strategies of Emotional Keyword Predicates / 602
SunKyung Kim(Daejin University, Korea), PanSeop Shin(Daejin University, Korea), JungMin Kim(Daejin University, Korea)
02. W-6-03_3-Dimensional Emotion Model Suitable for Korean Keywords / 604
SunKyung Kim(Daejin University, Korea), PanSeop Shin(Daejin University, Korea)
03. W-6-04_Design of Semantic User Profile and Content-based scheme for TV Programs Recommendation based on TV Ontology / 606
Jungmin Kim(Daejin University, Korea), Hyunsook Chung(Chosun University, Korea), PanSeop Shin(Daejin University, Korea)
04. W-6-06_Learning Concept Sequencing through Semantic-based Syllabus Design and Integration / 608
Hyunsook Chung(Chosun University, Korea), Jungmin Kim(Daejin University, Korea)
05. W-6-08_Goal Model based Autonomic Control Pointer for Cyber-Physical Systems (CPS) / 610
JeongMin Park(Korea Polytechnic University, Korea), Seunghwa Lee(Baekseok University, Korea), Taebok Yoon(Seoil University, Korea)

06. W-6-09_Towards Monitoring System Knowledge for Autonomic Control System / 612
JeongMin Park(Korea Polytechnic University, Korea), Seunghwa Lee(Baekseok University, Korea), Taebok Yoon(Seoil University, Korea)
07. W-6-10_A New Data Sorting Method in Mobile Environments / 614
Seunghwa Lee(Baekseok University, Korea), JeongMin Park(Korea Polytechnic University, Korea), Ok-Ran Jeong(Gachon University, Korea)

Session 6-B

Chair Suk-Yong Jung(Dongyang Mirae University)

● 13:00~14:20

Friday July 4, 2014

01. CT-02_Cultural Difference of Nations and Localization of MNEs in China / 617
Jaewook Yoo(Konkuk University, Korea)
02. CT-04_Vision Congruence, Empowerment, and Organizational Effectiveness / 619
Yunsuk Cha(Dong-A University, Korea)
03. CT-05_Effects of Rest Method on Fatigue Related Factors and Performance after Submaximal Exercise / 621
Young-Bok Yoon(Chonnam Science College, Korea), Sun-Ho Kim(Namub University, Korea)
04. CT-06_The Persuasive Impact of Regulatory Focus and Message Valence on Consumers' Responses to Social Networking Sites (SNSs) Campaigns / 623
Kwang Seok Han(Namseoul University, Korea), Taejun (David) Lee(Kookmin University, Korea)
05. CT-09_A Study on Domestic and Overseas Museum Collections of Korean and Western Ancient Metal Mirrors Focusing on Formative Aesthetics and Relevance to Cultural Exchange / 625
Unjae Yun(Joongbu University, Korea)
06. CT-12_A Study of Korean Children's English Learning Stress and Their Academic Self-Concept: Small Town vs. Metropolitan City / 627
Keun Huh(Hannam University, Korea)
07. CT-17_Proposition of User Participation Energy Platform / 629
Minwoo Kim(Soongsil University, Korea), Kyungran Lim(Soongsil University, Korea)

Session 1-C

Chair Seung-Hee Le(Kumoh National Institute of Technology)

● 14:30~15:50

Friday July 4, 2014

01. BT-27_Foundational data of functional status (WeeFIM) in Korean children with cerebral palsy: the preliminary trial / 631
Eun-Young Park(Jeonju University, Korea)

02. BT-28_A comparative Study of the Use of Bicycle on the Balance, Muscle Strength, Self-esteem, and Depression of Elderly Women / 633
Hee Kyung Kim(Kongju National University, Korea), Hyang Soo Kim(Munhyung College, Korea), Mi Hyeon Park(Catholic Sangji College, Korea), Hyang Sook Kang(Munhyung College, Korea)
03. BT-30_The effect of adolescent's developmental assets and gratitude on happiness in Korea - The mediating pathway of gratitude / 635
Jung Hyun Choi(Namseoul University, Korea), Mi Yu(Namseoul University, Korea), Kyoung Eun Kim(Namseoul University, Korea)
04. BT-31_Berberine inhibits WFA-caused apoptosis and inflammation in rabbit articular chondrocytes / 637
Seon-Mi Yu(Kongju National University, Korea), Song-Ja Kim(Kongju National University, Korea)
05. BT-32_Salinomycin-caused ER stress regulates proliferation in rabbit articular chondrocytes / 639
Seon-Mi Yu(Kongju National University, Korea), Song-Ja Kim(Kongju National University, Korea)
06. BT-34_A study on the influencing factors of mental health of mothers with infants and toddlers :Focusing on social support, family relations and a role within the family / 641
Jae-woo Oh(Chungbuk Health & Science University, Korea), Oe-Nam Kim(Chungbuk Health & Science University, Korea), Hye-won Kim(Konyang University, Korea)
07. BT-35_A study on the factors that influence the mental health of middle school students : Focusing on family relationships and conversation with parents / 643
Mi-Yea Lee(Chungbuk Health & Science University, Korea), Jae-Woo Oh(Chungbuk Health & Science University, Korea), Hye-Sun Bang(Cheongju welfare foundation researcher, Korea)

Session 2-C

Chair Bae, Woo Sik(Ajou Motor College)

● 14:30~15:50

Friday July 4, 2014

01. IT-27_Design and Implementation of Intelligent Main Distributing Frame System that Realizes the Automatic Connection Matrix / 645
O-Byoung Kwon(SungKyul University, Korea), Mee-Kyeong Park(BaekSeok Culture University, Korea)
02. W-15-12_Does Interactional Justice Lead Innovative Behavior? / 647
Woojae Choi(Cheongju University, Korea)
03. W-20-8_The Relative Levels of Grit and Their Relationship with Potential Dropping-Out and University Adjustment of Foreign Students in Korea / 649
SheriN. Slick(Hanseu University, Korea), ChangSeek Lee(Hanseu University, Korea)
04. W-20-10_The Relationship between Marine Sports Participants' Experiences, Life Satisfaction and Decision Behavior / 652
YoungHoon Kwon(Hanseu University, Korea), ChunHo Yang(Hanseu University, Korea)
05. W-20-11_The mediating effects of hope between self-esteem and emotional intelligence of elementary school students in rural areas / 654
JeongMee Kim(Hanseu University, Korea), ChangSeek Lee(Hanseu University, Korea)

06. W-20-14_Democracy and its Impact on Economic Development in Sub-Saharan Africa / 656
Sanji Walters Mudo(Hanseou University, Korea), ChangSeek Lee(Hanseou University, Korea)
07. W-20-17_The mediating effects of self-esteem and peer support between race diversity and social distance of elementary school students / 658
YuenHua Lee(Hanseou University, Korea), ChangSeek Lee(Hanseou University, Korea)

Session 3-C

Chair Sam-Jin Jeong(Baekseok University)

● 14:30~15:50

Friday July 4, 2014

01. W-19-08_A study on the Norm-Referenced Criteria for Isokinetic Functional strength of the wrist for junior baseball players / 660
SuHyun Kim(Dankook University, Korea), WanYoung Yoon(Seowon University, Korea)
02. W-19-09_The effect of game participation of a professional baseball pitcher on GIRD, scapulohumeral rhythm / 662
ByungGon Kim(SPOSA(sports performance of science academy), Korea), WanYoung Yoon(Seowon University, Korea), Jaekeun Oh(Korea National Sport University, Korea)
03. W-19-10_Relationship between Balance and Isokinetic Strength of the Dominant Lower Extremity in Elite Male Handball by Player Position / 664
KyungShin Yoon(Kyunghee University, Korea), TaeGyu Kim(Taeneung National Training Center of the Korean Olympic Committee, Korea)
04. W-19-11_Relationship between the Balance and Isokinetic Strength of the Ankle Joint according to Playing Position of Elite Female Field Hockey Players / 666
TaeGyu Kim(Taeneung national training center of the Korean Olympic Committee, Korea), JongChul Park(Korea Armed Forces Athletic corps, Korea)
05. W-19-12_The effect of game participation by a professional pitcher on isokinetic and isometric muscle strength / 669
ByungGon Kim(SPOSA(sports performance of science academy), Korea), WanYoung Yoon(Seowon University, Korea)
06. W-19-13_Study on the Leisure Activities Status and Leisure Restriction of the Foreign Married Immigrant Women in South Korea / 671
YoungMee Kim(Seowon University, Korea), IlGwang Kim(Seowon University, Korea), SuSun Park(Seowon University, Korea)
07. W-19-14_The Effects of Leisure Motivation on Leisure Satisfaction and Adjustment to Korea of Married Immigrant Women / 673
YoungMee Kim(Seowon University, Korea), JaeSik Yang(Chungnam National University, Korea), JongKil Lee(Chungnam National University, Korea), IlGwang Kim(Seowon University, Korea), SuSun Park(Seowon University, Korea)

01. W-14-03_Factors influencing Career Preparation Behaviors during Career Decision - Case Study on Students Majoring in Dental Technology - / 675
Sook Jeong Lee(Silla University, Korea), InHo Jeong(Gimcheon University, Korea), yeJong Lee(Gimcheon University, Korea), YongJu Kang(JinJu health College, Korea)
02. W-14-04_A study on the management plan for promoting key competence of dental hygiene students / 677
YongJu Kang(JinJu health College, Korea), SookJeong Lee(Silla University, Korea)
03. W-14-09_A study of dental caries condition and a high caries risk group for 12-years-old Korean children / 679
InHo Jeong(Gimcheon University, Korea), JongHwa Lee(Gimcheon University, Korea), MyungJa Park(Gimcheon University, Korea), HyunKyun Yun(Andong Science College, Korea)
04. W-14-10_The effect of eating habit and oral health behavior on subjective perception of oral health for Korean adolescent / 681
InHo Jeong(Gimcheon University, Korea), JongHwa Lee(Gimcheon University, Korea), MyungJa Park(Gimcheon University, Korea), JinYeong Yoo(Suseong College, Korea)
05. W-14-11_The relations between fixed and removable partial denture and full denture status and needs and periodontal disease for Korean adult / 683
InHo Jeong(Gimcheon University, Korea), JongHwa Lee(Gimcheon University, Korea), MyungJa Park(Gimcheon University, Korea)
06. W-14-14_Compensation of Corneal Aberrations by the Internal Optics of the Eyes / 685
SangDeok Lee(Gimcheon University, Sungkyunkwan University, Korea), Sookjeong Lee(Silla University, Korea), HyunSoo Bang(Gimcheon University, Korea)
07. W-14-17_Perception of Happiness among Health-related University Students:
Q Methodological Approach / 687
YongSuk Kim(Gimcheon University, Korea)

01. W-6-11_Designing and Developing an Autonomic Control System towards High-Reliable Cyber-Physical Systems (CPS) / 689
JeongMin Park(Korea Polytechnic University, Korea), Seunghwa Lee(Baekseok University, Korea), Taebok Yoon(Seoil University, Korea)

02. W-6-12_A Study on Job Analysis in Nursing Assistants / 691
Moonsook Shim(Konyang University, Korea), Milim Im(Baekseok University, Korea), Namyong Yang(Konyang University, Korea), Ju-young Park(Konyang University, Korea), Jeongin Lee(Daejeon Institute of Science and Technology, Korea), Sunghee Baik(Baekseok University, Korea)
03. W-6-13_Health behavior, family function, and depression of middle-aged men / 693
Jeong In Lee(Daejeon Institute of Science and Technology, Korea), MiLim Im(Baekseok University, Korea)
04. W-6-15_Study on Post-divorce Social Adjustment Experience of Female Victims of Domestic Violence / 695
Ki Sook Ko(BaekSeok University, Korea), Myoung Sook Kim(BaekSeok Culture University, Korea)
05. W-19-15_Effect analysis for LPGA Korean Company Sponsorship: Moderating Effect of Title Sponsor and Player Endorsement / 697
IlGwang Kim(Seowon University, Korea)
06. W-19-16_Strategies for Job Creation in the field of Complementary and Alternative Medicine / 700
JinYoung Jeong(Joenju University, Korea), IlYoung Cho(Joenju University, Korea), SoonKwon Park(Joenju University, Korea)
07. W-19-17_Antioxidant Activities of solvent-extracted fractions from Kummerowia striata (Thunb.) Schindl / 702
JaeHyeok Lee(Gwangju Nambu University, Korea), JeongSuk Park(Gwangju Nambu University, Korea)

Session 6-C

Chair John Benedict N. Cabilin(Bulacan State University)

● 14:30~15:50

Friday July 4, 2014

01. W-1-03_Study on improvements of the NITS knowledge map services / 704
NamGyu Kang(Korea Institute of Science & Technology Information, Korea), MinWoo Park(Korea Institute of Science & Technology Information, Korea), MyungSeok Yang(Korea Institute of Science & Technology Information, Korea), KwangNam Choi(Korea Institute of Science & Technology Information, Korea), TaeHyun Kim(Korea Institute of Science & Technology Information, Korea), WonKyun Joo(Korea Institute of Science & Technology Information, Korea), OhSeok Kwon(Chungnam National University, Korea)
02. W-1-04_Enhanced user authentication algorithm using OAuth in cloud computing environment / 706
Cheol-Joo Chae(Korea Institute of Science & Technology Information, Korea), Kwang-Nam Choi(Korea Institute of Science & Technology Information, Korea), YongJu Shin(Korea Institute of Science & Technology Information, Korea), Kiseok Choi(Korea Institute of Science & Technology Information, Korea), Yong-Hee Yae(Korea Institute of Science & Technology Information, Korea), Jae-Soo Kim(Korea Institute of Science & Technology Information, Korea)
03. W-1-05_A Study on Service Improvement using R&D Information Needs Analysis of SME / 708
Yunjeong Kim(Korea Institute of Science and Technology Information, Korea), Heeseok Choi(KISTI, Korea), Heejun Han(KISTI, Korea), Jaesoo Kim(KISTI, Korea)

04. W-1-06_User-friendly Customized Search Mechanism in Mobile NTIS Service / 710
Yong-Ki Kim(Korea Institute of Science & Technology Information, Korea), JungHo Seok(Korea Institute of Science & Technology Information, Korea), Kwang-Nam Choi(Korea Institute of Science & Technology Information, Korea), JaeSoo Kim(Korea Institute of Science & Technology Information, Korea)
05. W-1-07_Integrated Management of National R&D Information Life-Cycle / 712
Wongoo Lee(KISTI, Korea), Kangryul Shon(KISTI, Korea)
06. W-1-08_A Data Analysis method based on Time Series Analysis to create Information Values / 714
ChulSu Lim(Korea Institute of Science & Technology Information, Korea), Wongoo Lee(Korea Institute of Science & Technology Information, Korea), Seungwu Han(Korea Institute of Science & Technology Information, Korea), Kang-Ryul Shon(Korea Institute of Science & Technology Information, Korea)
06. W-13-05_Fault Tolerant Control for Spaceborne Dual Ring Counters with Selective Overriding Logic / 716
Jung-Min Yang(Kyungpook National University, Korea), Im Y. Jung(Kyungpook National University, Korea), SeongWoo Kwak(Keimyung University, Korea)

Session 1-D

Chair Kun-Hee Han(Baekseok University)

● 16:00~17:20

Friday July 4, 2014

01. W-12-02_A Service System to Modify Mobile Wallpaper in Real time / 718
JongChan Lee(ChungWoon Univ., Korea), JiHyun Kim(KNPlanet, Korea)
02. W-12-05_The Calculations of the Recognizer in the State Automata based on its Matrix Model / 720
Lunman Deng(Huizhou University, China), JeongYoung Song(PaiChai University, Korea)
03. W-12-06_Decision Tree Classification Algorithm based on Cost and Benefit Dual-Sensitive / 722
Lunman Deng(Huizhou University, China), JeongYoung Song(PaiChai University, Korea)
04. W-12-07_A Study of strategy to promote the national defense IT governance / 724
HoKyung Yang(Kwangwoon Unvrersity, Korea), HyunJong Cha(Kwangwoon Unvrersity, Korea), HwangBin Ryou(Kwangwoon University, Korea), JinMook Kim(Sunmoon University, Korea)
05. W-12-08_Secure SDN Authentication Protocol on Mash-network Environments / 726
JeongKyung Moon(Sunmoon University, Korea), JinMook Kim(IT Education Sunmoon University, Korea), HanJin Cho(Far East University, Korea)
06. W-12-09_Construction of Ontology-based Knowledge Map to Create New Valuable R&D Information / 728
Wongoo Lee(KISTI, Korea), Kangryul Shon(KISTI, Korea)
07. W-12-13_A Study on the Reconfigurable Elliptic Curve Cryptography / 730
EunHee Goo(Donut System LSI Co.Ltd, Korea), SeungDae Lee(Namseoul University, Korea)

Session 2–D

Chair Gui–Jung Kim(Konyang University)

● 16:00~17:20

Friday July 4, 2014

01. IT-33_Development of Control Devices on Bidirectional Protection Coordination for PV Systems / 732
Chanhyeok Kim(Electrical Industry Research Institute, Korea), Yongpeel Wang(Electrical Industry Research Institute of Korea), Hyeongju Han(Electrical Industry Research Institute of Korea), Woocho Kim(Electrical Industry Research Institute of Korea), Deaseok Rho(Korea University of Technology and Education, Korea)
02. IT-38_An Image Edge Detection Method Using K-means Clustering / 734
GaOn Kim(KwangWoon University, Korea), SangHun Lee(KwangWoon university, Korea), JinSu Kim(KwangWoon university, Korea), YoungSoo Park(IDP System, Korea)
03. IT-39_2D/3D efficient conversion method of Grabcut for parallel processing / 736
JiHoon Kim(KwangWoon University, Korea), SangHun Lee(KwangWoon University, Korea), GangSeong Lee(KwangWoon University, Korea), GyeDong Chung(KwangWoon University, Korea)
04. IT-40_A Handover Management Scheme Based on User-Preferences and Network-Centric Approach / 738
Murad Khan(Kyungpook National University, Korea), Youngmi Baek(Kyungpook National University, Korea), Wooseong Cho(Kyungpook National University, Korea), Gihyuk Seong(Kyungpook National University, Korea), Kijun Han(Kyungpook National University, Korea)
05. IT-41_Cloud Infrastructure for Ubiquitous M2M and IoT Environment Mobile Application / 740
DongBum Seo(Korea University, Korea), Chang–Sung Jeong(Korea University, Korea), You–Boo Jeon(Korea University, Korea), Keun–Ho Lee(Baekseok University, Korea)
06. IT-42_A Study of Integrated Control System for Effective Energy Saving of Buildings / 742
Jeong Kyoon Lee(Incheon National University, Korea), Seung Hee Park(Sungkyunkwan University, Korea), Ki Young Lee(Incheon National University, Korea)

Session 3–D

Chair Je–Ran Chun(Daejeon Health Sciences College)

● 16:00~17:20

Friday July 4, 2014

01. W-19-18_A Research Approach of Q-Methodology to the Image Types of 'Good Female Leisure Sports Leaders' / 744
YoungMee Kim(Seowon University, Korea), SooJin Seo(Chungnam National University, Korea)
02. W-19-19_Impact of Team Relationship and Mutual Trust of Professional Soccer Team Coach on Team Loyalty / 746
KyungHoon Park(Jeonju university, Korea), SangHang Lee(Jeonju university, Korea), HoMoo Jun(Mokpo national university, Korea), KyeSok Lee(Jeonju university, Korea)
03. W-19-20_Impact of Exercise Experience Factors of Taekwondo Participants on their Exercise Satisfaction, Acceptance of WOM, and Spread of WOM / 748
BangGyun Oh(Jeonju university, Korea), SangHang Lee(Jeonju university, Korea)

04. W-19-21_A Study on the Evaluation of the Transportation Poor's Accessibility - Focused on the Evaluation of Accessibility Importance by the Transportation Poor - Related Experts / 750
SangGu Kim(Chonnam National University, Korea), HongJoong Cho(Chonnam National University, Korea), Jeongran Kim(Chonnam National University, Korea)
05. W-19-22_Quality of Life in People with Restricted Growth -Focused on Perception of Social Welfare Workers- / 752
JeongRan Kim(Chonnam National University, Korea), SangGu Kim(Chonnam National University, Korea), HongJoong Cho(Chonnam National University, Korea)
06. W-19-23_The Characteristics of Reading-related skills in Poor Comprehenders, Poor Readers and Normal readers in Korean 1 to 2 grades children / 754
HyunRin Park(Gwangju University, Korea), Akira Uno(University of Tsukuba, Japan)
07. W-19-24_Correlation between Early Psychosis and Resilience of Korean Adolescents / 756
SoRa Kim(Jeonju University, Korea), MyungShig Kim (Jeonju University, Korea)

Session 4-D

Chair Jungmann Lee(Hoseo University)

● 16:00~17:20

Friday July 4, 2014

01. BT-36_Knowledge, Attitude, and Intention for Hematopoietic Stem Cell Donation of College Students in Korea / 758
Miok Kim(Namseoul University, Korea), Hyunmi Ahn(Korean Bible University, Korea)
02. BT-38_Relationship of GMFCS and Functional Outcome in Children With Cerebral Palsy / 760
Won-Ho Kim(Ulsan College, Korea), Eun-Young Park(Jeonju University, Korea)
03. BT-40_The Influencing Factors on Depression of University Students in Korea / 762
Jung- Hyun Choi(Namseoul University, Korea), Se-jin Joo(Namseoul University, Korea), Kyung Sook Kim(Namseoul University, Korea), Mi Yu(Namseoul University, Korea), Miok Kim(Namseoul University, Korea), Hee Jeong Kim(Namseoul University, Korea)
04. BT-41_Ego resilience, emotional burn out, emotional labor in turnover intention of hospital nurses: Focused on the moderating effect of peer support / 764
Minsook Seo(Chungang University, Korea), Heejeong Kim(Namseoul University, Korea), Dahye Park(Semyung University, Korea)
05. BT-47_Estimation of the Retinal Vessel Diameter in Patients' Fundus Fluorescein Angiography / 766
Eunhwa Jung(Baekseok University, Korea), Kyungho Hong(Baekseok University, Korea)
06. BT-48_A Study on the Image of Nurses Recognized by University Students / 768
Heejeong Kim(Namseoul University, Korea), Dahye Park(Semyung University, Korea)
07. BT-51_Change of Muscle Activities in Trunk, Hip and Leg Muscles according to Variable Standing Posture / 770
JaeHo Yu(SunMoon University, Korea), JiHeon Hong(SunMoon University, Korea), JinSeop Kim(SunMoon University, Korea), Yong Nam(SunMoon University, Korea), JungWan Ryu(SunMoon University, Korea), DongYeop Lee(SunMoon University, Korea)

Session 5-D

Chair Wan Bok Lee(Kongju National University)

● 16:00~17:20

Friday July 4, 2014

01. W-4-16_Design of Java Testing tool by Instrumentation / 772
Soy Sambocheyear(Daejeon University, Cambodia), Hwang Sun-Myung(Daejeon University, Korea)
02. W-4-17_The Effects of Job Environment and Resilience on Job Satisfaction and Organization Commitment of Social Workers in Juvenile Reformatory Schools / 774
Eun Jung Lee(Baekseok University, Korea), Punghoi Cha(Baekseok University, Korea)
03. W-4-18_Representation Scheme Implementation on Hologram Video Technology in M2M Application Environment / 776
Hak Hyun Choi(Seoul Women' s University, Korea), Seung Ae Lim(Seoul Women' s University, Korea), You Boo Jeon(Korea University, Korea), Keun Ho Lee(Baekseok University, Korea)
04. W-4-22_Related Factors in Depression of Elderly in Arthritis / 779
Jin-Kyoung Park(Baekseok Culture University), Mi-Young Choi(Seojeong University, Korea), Do-Young Lee(Baekseok University, Korea), Jung-Im Kim(Kangwon Tourism College, Korea)
05. W-4-23_The mediating effect of cognitive emotional regulation strategies on the subjective well-being of emotional laborers in regards to their job stress / 781
Do-Young Lee(Baekseok University, Korea), Jin-Kyoung Park(Baekseok Culture University, Korea)
06. W-4-24_A Study on the Physical Self-esteem, Psychological Self-esteem and Wellbeing following Middle School Students' Body Mass IndexApplication Environment / 783
Hye-Young Seo(Kyonggi University, Korea), Do-Young Lee(Baekseok University, Korea)
07. W-4-25_Relationship between Elderly People's Chronic Disease, Depression, Activity Limit and Self-rated Health in Korea / 785
Jin-Kyoung Park(Baekseok Culture University, Korea), Soon-Lae Kim(The Catholic University, Korea), Do-Young(Baekseok University, Korea), Lee, Ari(The Catholic University, Korea)

Session 6-D

Chair Jeong-Ick Lee(Inha Technical College)

● 16:00~17:20

Friday July 4, 2014

01. W-7-09_Importance-Performance Analysis of Attractiveness Assessment for Festival : A Case of Sobaeksan Royal Azalea Festival / 787
Sang Soo Choi(Semyung University, Korea)
02. W-7-10_Raising Efficiency Measures Through CCTV Visual Information Use For Crime Prevention / 789
KiNam Choi(Semyung University, Korea)
03. W-7-12_A study of the use of data in the Cloud storage for collaboration / 791
JaeYoung Lee(Semyung University, Korea), AeRi Lee(Kwandong University, Korea)

04. W-7-13_Authentication scheme for smart learning system in the cloud computing environment / 793
Aeri Lee(Kwandong University, Korea), Jaeyoung Lee(Semyung University, Korea)
05. W-7-15_A Study on the Machine Selection Problem Considering the Cost of Defective Products in the Machining Process / 795
Chan Woong Park(Gachon University, Korea)
06. W-16-01_Initial Registration Protocol of Hadoop System using hash-chain / 797
YoonSu Jeong(Mokwon University, Korea), SangHo Lee(Chungbuk National University, Korea),
SeungSoo Shin(Tongmyong University, Korea)
07. W-21-01_Clinical decision support system for the systematic literature review / 799
Junggi Yang(Gachon University, Korea), Minsu Park(Gachon University, Korea), Ungu Kang(Gachon University, Korea),
Youngho Lee(Gachon University, Korea)

Oral Presentation

Saturday July 5, 2014

Session 1-A

Chair Kwang-Hwan Kim(Konyang University)

● 10:00~11:20

Saturday July 5, 2014

01. OT-04_Development of High Efficient Solar Concentration Photovoltaic System / 801
Heejoon Lee(Research center NST Co.Ltd., Korea), JaeHong Lee(Research center NST Co.Ltd., Korea)
02. OT-07_The Relationship between the Stress from Learning English and Defense Mechanism of Elementary Students / 803
Keun Huh(Hannam University, Korea)
03. OT-09_Confinement Factor Variation of Ridge Waveguide Laser Diode / 805
Kee-Young Kwon(Kongju National University, Korea)
04. OT-10_Knowledge Specificity and Technology Diffusion Patterns in University-Born Patents of Korea / 807
Kyutae Kim(Konkuk University, Korea), Yongrae Cho(Science and Technology, Korea), Minhoe Hur(Seoul National University, Korea), Jaemin Park(Konkuk University, Korea)
05. OT-11_Intersectoral Technology Spillovers and Innovation Capacity of Manufacturing Sectors in Korea: An R&D Input-output Model / 809
Jaemin Park(Konkuk University, Korea), Jooyong Chon(Korea Employment Information Service, Korea)
06. W-17-07_Study on Set-up Error and Dose Distribution for Development of 6D Device Adjustment Couch for Head and Neck Cancer / 811
JaeGoo Shim(Hanseu university, Korea), HongRyang Jung(Hanseu university, Korea)
07. W-17-11_A Study on the Chemical Composition of Celadon Excavated at kiln Sites in Gangbuk-Gu(Suyu-dong, Ui-dong), Seoul, Korea / 813
KoangChul Wi(Hanseu University, Korea), SeungMin Kang(Hanseu University, Korea), YongHoon Lee(Mokpo National University, Korea), HyeongSoo Choi(Seoul Museum of History, Korea), GiJung Park(Seoul Museum of History, Korea), SungJin Lim(National Museum of Modern and Contemporary Art, Korea)

Session 2-A

Chair Sunghyun Yun(Baekseok University)

● 10:00~11:20

Saturday July 5, 2014

01. W-4-26_Stress response according to the job stress of call center workers - Focused on the mediating effects of cognitive emotional regulation strategies- / 815
Jin-Kyoung Park(Baekseok Culture University, Korea), Jung-Im Kim(Kangwon Tourism College, Korea), Do-Young Lee(Baekseok University, Korea)
02. W-4-27_The Effects of Laughter Therapy on the Perceived Health Status and Helplessness in the Elderly / 817
Sunghye Baik(Baekseok University, Korea), Do-Young Lee(Baekseok University, Korea)

03. W-4-28_Hidden Evasive Server-Side Polymorphic Malicious Apps Detection Mechanism on Android based Smart Phone Devices / 819
Daeyeol Moon(Hanshin University, Korea), Hyung-Woo Lee(Hanshin University, Korea), Jae Deok Lim(ETRI, Korea), Jeong Nyeo Kim(ETRI, Korea)
04. W-4-30_The Mobile Meeting Protocol based on Biometric Group Signature Scheme / 821
Sunghyun Yun(Baekseok University, Korea)
05. W-4-32_Factors on Psychological Maladaptation of Chinese Students Studying in Korea / 823
Minkyong Kim(Namseoul University, Korea)
06. W-4-33_The Effect of Multicultural Adolescents' Personal, Parent-Related and School-Related Factors on their Career Development Maturity / 825
Minkyong Kim(Namseoul University, Korea)

Session 3-A

Chair Labastilla, E.(Tarlac State University)

● 10:00~11:20

Saturday July 5, 2014

01. W-8-01_Data Transmission Scheme for Cluster Based Wireless Sensor Networks / 827
Seung-kwon Choi(Chungbuk National University, Korea), Sun-Chul Kim(En-echo, inc., Korea), Yong-Hwan Cho(Chungbuk National University, Korea)
02. W-8-02_Optimal Combination Model of Donor and Acceptor using Genetic Algorithm in Organic Solar Cell / 829
Tae-Woo Lee(Chungbuk National University, Korea)
03. W-8-03_Design of Fuzzy Membership Function for Context Inference System Accuracy Improvement / 831
Tae-Woo Lee(Chungbuk National University, Korea)
04. W-8-04_A Safe Election Protocol based on an Unreliable Failure Detector in Distributed Systems / 833
Sung-Hoon Park(Chungbuk National University, Korea), Seon-Hyong Lee(Chungbuk National University, Korea)
05. W-8-05_A study on the Acceptance Factor for Telehealth Service of according to Health status groups / 835
Sung-Soo Kim(Cheongju University, Korea)
06. W-8-06_Towards the Quality Measurement of Remote Sensing Satellite Data Platform / 837
Jong Yun LEE(Chungbuk National University, Korea), Hee June HAN(Chungbuk National University, Korea)
07. W-8-07_An Improved PDF417 barcode Recognition Method Based on Hysteresis thresholding / 839
Young Jung KIM(Chungbuk National University, Korea), Jong Yun LEE(Chungbuk National University, Korea)
08. W-8-08_The Effects of Security Policies, Security Awareness and Individual Characteristics on Patients' Personal Information Protection / 841
Sung-Soo Kim(Cheongju University, Korea), Kyu-Ho Jeoung(Cheongju University, Korea)

09. W-8-09_Toward the Segmentation of 2D Data Matrix Barcode / 843
Hee June HAN(Chungbuk National University, Korea), Woo Sik BAE(Ajou Motor College, Korea),
Jong Yun LEE(Chungbuk National University, Korea)

Session 4-A

Chair Yong-Hwan Cho(Chungbuk National University)

● **10:00~11:20**

Saturday July 5, 2014

01. W-10-09_Effect of Nintendo Wii Fit Exercise Program to Health-related Physical Fitness and Quality of Life in the University Students / 845
MiHyun Joo(Jeonju University, Korea)
02. W-10-10_EQ-VAS and EQ-5Dindex by Heath Status in the Community Dwelling Elders with Osteoarthritis / 847
In-Young Yoo(Jeonju University, Korea)
03. W-10-11_A Study on AQ(Adversity Quotient), Job satisfaction and Turnover intention according to work units of clinical nursing staffs in Korea / 849
JungHee Song(Jeonju University, Korea), HaeYoung Woo(Hanyang University, Korea)
04. W-10-12_A Study on Attitude, Knowledge and Awareness to the Patient Falls by Nursing Students / 851
Myoung Hee Kim(Semyung University, Korea), Hye Won Jeon(Kkottongnae University, Korea), Mi-Young Chon(Konkuk University, Korea)
05. W-10-13_Factors Influencing Quality of Life(QOL) in Married Immigrant Women in Korea / 853
MinSook Seo(ChungAng University, Korea), Dahye Park(Semyung University, Korea)
06. W-10-14_Osteoporosis Awareness and Bone Mineral Density among College women / 855
YunMi Kim(Gachon University, Korea), MyoungHee Kim(Semyung University, Korea)
07. W-10-15_A Validation Study on the Translated Korea Version of Emotional Labor Scale(ELS) in Hospitality Organizations / 857
Eun Hee Jang(Woosuk University, Korea), Dahye Park(Semyung University, Korea), DongHoon Lee(ChungAng university, Korea), DukHee Lee(Eulji University, Korea), YoonHee Choi(Ewha Womans University, Korea)
08. W-10-16_Self-Differentiation, Family Function, Life Satisfaction, and Attitudes toward Marriage of Korean University Students / 860
Hyun-Sil Kim(Daegu Haany University, Korea), Young-Mi Jung(Daegu Haany University, Korea)

Session 5–A

Chair Chung–Hwan Lim(Hanseu University)

● 10:00~11:20

Saturday July 5, 2014

01. IT-44_Load Balancing and Interference Delay Aware Routing in Wireless Mesh Network / 862
Jilong Li(Kyungpook National University, Korea), Kijun Han(Kyungpook National University, Korea), Wooseong Cho(Kyungpook National University, Korea), Jeongbae Yun(Kyungpook National University, Korea), Keuchul Cho(Kyungpook National University, Korea), Gisu Park(Kyungpook National University, Korea)
02. IT-46_Design of Map Puzzle App for Evaluation of Children's Spatial Knowledge / 864
Pyung Woo Yang(Kunsan National University, Korea), Hyung Gu Cho(Kunsan National University, Korea), Jeong Hye Han(Cheongju National University of Education, Korea), Kwang Woo Nam(Kunsan National University, Korea)
03. IT-48_A comparison analysis between NTIS and e-Rad in R&D management / 866
Heeseok Choi(Korea Institute of Science and Technology Information, Korea), Jaesoo Kim(Korea Institute of Science and Technology Information, Korea), Heejun Han(Korea Institute of Science and Technology Information, Korea)
04. IT-50_Bigdata Platform Implementation Model / 868
Kyo–Sung Noh(Sunmoon University, Korea), Doo–Sik Lee(Imcloud Co.Ltd., Korea)
05. IT-53_A Study on Abstract Query for Data Integration of DBaaS in Cloud Environment / 870
Kyedong Jung(Kwangwoon University, Korea), Chigon Hwang(Kwangwoon University, Korea), Hyoyoung Shin(Kyungbok University, Korea), Jongyong Lee(Kwangwoon University, Korea), Sanghoon Lee(Kwangwoon University, Korea)
06. IT-54_Models of Performance Monitoring System in Offshore Installations / 873
Youhee Choi(Electronics and Telecommunications Research Institute, Korea), Gwang–Ja Jin(Electronics and Telecommunications Research Institute, Korea), Byungtae Jang(Electronics and Telecommunications Research Institute, Korea)

Session 6–A

Chair Yen–Yoo You(Hansung University)

● 10:00~11:20

Saturday July 5, 2014

01. GR-01_Automotive Engine Fault Diagnosis with Using Diagonal Recurrent Neural Networks / 875
He Wei(Sheffield University, UK)
02. GR-02_Friction Force Modelling and Application to Endoscopy / 878
Weichao Ma(Liverpool University, China)
03. GR-03_Determination of Smart System Model Characteristics for Learning Process / 881
Fatimah Alsaiif(University of Groningen, Netherlands), Arockisamy Clementking(King Khalid University, Saudi Arabia)
04. GR-04_Enhancing Effective Interoperability between Mobile Apps Using LCIM Model / 886
C.SHANTHI(Vels University, India), JOSPHINE(DR M.G.R UNIVERSITY, India)

05. GR-05_Impact of Merrill's Model in Computer Aided Teaching Tool [CATT] Development for problem bases / 890
Suriyakala(Dr.Ambedkar Government Arts and Science College, India), Clementking(King Khalid University, Kingdom of Saudi Arabia)
06. GR-06_Shared Neighborhood Connectivity for Object Similarity Closure / 894
P.Radhakrishnan(King Khalid University, Kingdom of Saudi Arabia), A.Clementking(King Khalid University, Kingdom of Saudi Arabia)
07. GR-07_Neural Network Back Propagation model for Cognitive analysis / 897
A.Naveen(Dr.MGR University, India), M.S.Josephine(Dr.MGR University, India)
08. GR-08_ANALYSIS OF SNE LEARNER'S PERFORMANCE USING NASA SCALING / 902
Sangita Babu(Hindustan College of Arts & Science, India), A.Naveen(Dr.MGR University, India)

Session 1-B

Chair Byung-Chel Lee(Selim Technical Service Group)

● 11:30~12:40

Saturday July 5, 2014

01. BT-54_The Effects of Client Violence on Caregiver's Job Stress and Burnout / 907
So Yun Choi(Namseoul University, Korea)
02. BT-58_Optimum Information System Model to Improve the Performance Ability of Daily Life in Stroke Patients / 909
Seong-Ran Lee(Kongju National University, Korea)
03. BT-59_Development and Application of An Integrated Information System to Improve Self-Care Behaviors in Glaucoma Patients / 911
Seong-Ran Lee(Kongju National University, Korea)
04. BT-60_Affecting factors on anxiety after cardiopulmonary resuscitation. / 913
Dahye Park(Semyung University, Korea), Heejeong Kim(Namseoul University, Korea)
05. BT-61_A study on the data mart implementation and visualization analysis for finding patterns of death of patients utilizing electronic medical record information / 916
Kyung-hee Kang(Konyang University, Korea), Kwang-Hwan Kim(Konyang University, Korea), Yong-Ha Kim(Konyang University, Korea)
06. BT-62_The longevity of tooth bleaching effect by hydrogen peroxide concentration using cold plasma / 918
Hye-Sook Choi(Kyungdong University, Korea), Hwa-Kyung Son(Baekseok University, Korea), Kwang-Mahn Kim(Yonsei University, Korea)
07. BT-64_Quality of Life of the Elderly with Chronic Disease in Korea / 920
Jung-Hyun Choi(Namseoul University, Korea), Kyung Sook Kim(Namseoul University, Korea)

Session 2-B

Eun-Sik Kwak(Kyung Bong)

● 11:30~12:40

Saturday July 5, 2014

01. W-23-01_Exploratory Research on Occupational Stress in Consulting Business Workers / 922
Byung-min Chang(Hansung University, Korea), Yen-Yoo You(Hansung University, Korea)
02. W-23-03_Communication and emotion study for job Commitment / 924
Do-Hyun Kim(Hansung University, Korea), Yen-Yoo You(Hansung University, Korea)
03. W-23-04_Research on determinant affecting the action will of management consulting / 926
Tea-Suk Jeoung(Hansung University, Korea), Yen-Yoo You(Hansung University, Korea)
04. W-23-05_Influencing Factors on Youth Employment Rate:Evidence in Republic of Korea / 928
Jae-Hoon Han(Hansung University, Korea), Yen-Yoo You(Hansung University, Korea), Kwan-Sik Na(Seowon University, Korea)
05. W-23-06_The study as to factors that have wielded influence on store performance in supermarkets / 930
Jung-ill Kim(Hansung University, Korea), Yen-Yoo You(Hansung University, Korea), Kwan-Sik Na(Seowon University, Korea)
06. W-23-07_Repurchase Intention in Online Fashion Shopping Mall / 932
Han-Na Kim(Seowon University, Korea), Kwan-Sik Na(Seowon University, Korea)
07. IT-61_A simulation investigation of the cylindrical reentrant cavity with notches / 934
Gyoo-Soo Chae(Baekseok University, Korea), Kazumasa Kawasaki(Nigata University, Japan)

Session 3-B

Chair Kyung-hee Kang(Konyang University)

● 11:30~12:40

Saturday July 5, 2014

01. W-19-25_Effects of Rescuers' Using a Smart Phone Band on the Quality of Chest Compression during Cardiopulmonary Resuscitation - Measurement Using a Manikin - / 936
HongSeok Baek(Dept. of Emergency Medical Technology, Daejeon University, Korea), SangSub Park(Chungcheong University, Korea)
02. W-19-26_The Actual Operation of a Private Prehospital Emergency Medical Service System in Some Regions / 938
IgiSung Kim(Daejeon University, Korea), SangSub Park(Chungcheong University, Korea), HongSeok Baek(Daejeon University, Korea)
03. W-19-27_A Study on the Term Dwarfism -Focused on Discriminatory Expression and Freedom of Expression- / 940
HongJoong Cho(Chonnam National University, Korea), Jeongran Kim(Chonnam National University, Korea), SangGu Kim(Chonnam National University, Korea)

04. W-19-28_The Effect of Manual Therapy for Neck Pain of Upper Cervical Syndrome in Middle-aged Women / 942
ChongSoo Jeong(Chosun University, Korea), EunHwa Ju(Chosun University, Korea), KyungRye Moon(Chosun University, Korea), IYyoung Cho(Jeonju University, Korea)
05. W-19-29_The Effect of Swiss Ball Stabilization Exercise on Deep and Superficial Cervical muscle and Pain in Patients with Chronic Neck Pain / 944
HyeYoung Cho(Yonsei Silver Valley, Korea), YunJin Park(Korea University, Korea), HyungHoon Moon(Korea University, Korea), SungKi Lee(CHA University, Korea), SangSeo Park(Korea University, Korea), GyuMin Kang(Korea University, Korea), MyungKi Kim(Korea University, Korea)
06. W-19-30_The Affect Combined Exercise And Scalp Care Has On Hair Heavy Metals Of Men With Hair Loss / 946
InSil Kwak(Hanyang University, Korea), IYyoung Cho(Jeonju University, Korea), SoHyung Kang(Hanyang University, Korea), JongHyuck Kim(Buchon University, Korea)
07. W-19-31_EFFECT OF THE TREADMILL EXERCISE FOR THE OBESITY OLD AGED WOMAN ON STRENGTH AND C-REACTIVE PROTEIN / 949
DoJin Kim(Daelim University College, Korea), JongHyuck Kim(Buchon University, Korea)

Session 4-B

Chair Seuc-Ho Ryu(Kong-ju National University)

● 11:30~12:40

Saturday July 5, 2014

01. W-5-02_Spatial Design Marketing Strategy of Brand-Name Coffee Shop 'DROPTOP' / 951
Jeeyeon Park(Baekseok University, Korea)
02. W-5-04_A Study on College Students' Knowledge and Educational Experience about Basic Life Support / 953
Shinhong Min(Baekseok University, Korea)
03. W-5-05_A Study on The Biomedical Ethics among University Students with Consideration for Categories of Major / 955
Soonyoung Yun(Baekseok University, Korea), Shinhong Min(Baekseok University, Korea)
04. W-5-06_A Study on the Differences between Spiritual Wellbeing and Sexual Attitude considering the type of University / 957
Shinhong Min(Baekseok University, Korea), Soonyoung Yun(Baekseok University, Korea)
05. W-5-12_Smart Convergence in Our Lives / 959
ByungTae Chun(Hankyong National University, Korea), SeongHoon Lee(Baekseok University, Korea)
06. W-5-13_Bio-Information Structure and Platform Design in Wearable Patch Systems / 961
TaeGyu Lee(Wonkwang University, Korea), SeongHoon Lee(BaekSeok University, Korea)

01. W-1-11_A Study on Public Sector Information Service Platform for Science and Technology Field / 963
WonKyun Joo(Korea Institute of Science and Technology Information, Korea), Kiseok Choi(Korea Institute of Science and Technology Information, Korea), YongHo Lee(Korea Institute of Science and Technology Information, Korea), EunJin Kim(Korea Institute of Science and Technology Information, Korea), Young-Kuk Kim(Chungnam National University, Korea)
02. W-1-13_A Study on Improving the Batch Registration Process for Collecting National Research and Development Information / 965
Tae-Hyun Kim(Korea Institute of Science & Technology Information, Korea), Myung-Seok Yang(KISTI, Korea), WonKyun Joo(KISTI, Korea), MinWoo Park(KISTI, Korea), NamGyu Kang(KISTI, Korea), Kwang-Nam Choi(KISTI, Korea)
03. W-1-14_An Analysis of a Convergence Utilization Field of Technology based on Usage Log in Information Service / 967
Su-Mi Shin(KISTI, Korea), Tae-Seok Yi(KISTI, Korea), Hye-Sun Kim(KISTI, Korea)
04. W-1-17_Information and Collaborative Filtering Methods for National R&D Information Navigation System / 969
Byeonghee Lee(KISTI, Korea), Kangryul Shon(KISTI, Korea), Wongoo Lee(KISTI, Korea)
05. W-1-18_Global Trends of Digital Information Services and Legal Issues / 971
Suhyeon Yoo(Korea Institute of Science & Technology Information, Korea)
06. W-1-20_A study on improved verification of paper using a verifying DB in papers for the national R&D projects / 973
YongJu Shin(Korea Institute of Science & Technology Information, Korea), Kwang-Nam Choi(Korea Institute of Science & Technology Information, Korea), Cheol-Joo Chae(Korea Institute of Science & Technology Information, Korea), Kiseok Choi(Korea Institute of Science & Technology Information, Korea), Yong-Hee Yae(Korea Institute of Science & Technology Information, Korea)
07. IT-62_A simulation on the periodic dielectric structures incorporating frequency-selective characteristics / 975
Mph. Sc. Zoran Bogdanovic(Zastava Automobile, Yugoslavia), Min Nyon Kim(Baekseok University, Korea)

01. GR-09_Survey on Data mining techniques and research Applications / 977
S.Rani(King Khalid University, Kingdom of Saudi Arabia), D. Gladis(Presidency College Chepauk, India)
02. GR-10_A Way to Access Multilingual Documents / 983
Donatas Saulevičius(Vytautas Magnus University, Lithuania), Tomas Krilavičius(Vytautas Magnus University and Baltic Institute of Advanced Technology, Lithuania), Ka Lok Man(Xi'an Jiaotong-Liverpool University, China)

03. GR-11_Sliding Mode Controller Design with Approximation / 985
Yifan.Zhang(Xi'an Jiaotong–Liverpool University, China)
04. W-18-20_Artificial Intelligent Algorithm for Lobe Curve Estimation in Spot Welding Process / 987
Tae Wan Kim(Pukyong National University, Korea), Young Whan Park(Pukyong National University, Korea)
05. GR-12_Role of Principal Component Analysis in Electroencephalography Signal Analysis / 989
P. Bhuvaneshwari(Bharathiar University, India), J. Satheesh Kumar(Bharathiar University, India)
06. GR-13_Role of LDA in Classification of Mass Spectral Data / 992
B. Firdaus Begam(Bharathiar University, India), J. Satheesh Kumar(Bharathiar University, India)
07. GR-14_Machine Learning Methods for Character Recognition / 994
S.Saranya(Bharathiar University, India), J.Satheesh Kumar(Bharathiar University, India)
08. GR-15_A Survey on Applications of Image Processing Methods in Agriculture Sector / 997
D. Surya prabha(Bharathiar University, India), J. Satheesh kumar(Bharathiar University, India),
R.Gokulakrishnan(Software Technology Parks of India, India)
09. GR-16_Analysis of Digital Image Forgery Detection Techniques / 1000
V.Thirunavukkarasu(Bharathiar University, India), J.Satheesh kumar(Bharathiar University, India)
10. W-11-20_A Design and Implementation of Vocational Training Contents with AR and VR / 1003
Ki-Hyun Park(Korea National Open Univ., Korea), Jin Gon Shon(Korea National Open Univ., Korea),
Yong Kim(Korea National Open Univ)
11. W-11-21_A Design of OSMD based Learning Management System / 1005
Dae Hyun Lee(Korea National Open Univ., Kore), Yong Kim(Korea National Open Univ., Korea),
Jin Gon Shon(Korea National Open Univ., Korea)