

## Table of Contents

Real-Time Sleepiness Detection for Driver State Monitoring System .....	1
<i>Deepak Ghimire, Sunghwan Jeong, Sunhong Yoon, Sanghyun Park, Juhwan Choi</i>	
Physical Property of Absorbable Suture (PLLA I , PLLA II, PLGA, PDO).....	9
<i>So-i Lee, Joung Soon Park, min kyu Park, Ja Kyung Koo</i>	
Subjectivity of Nursing Students' Experience of Simulation Based Learning : An Application of Q-methodology.....	13
<i>Hyun Jung, Doo, Yoon Jeong, Lee</i>	
Design of a high accuracy non-dispersive Infrared gas sensor for Continuous emission monitoring of carbon monoxide emitted from an industrial stack .....	20
<i>Trieu-Vuong Dinh, In- Young Choi, Bo Gao, Yong-Hwan Oh, Ji-Won Ahn, Jo-Chun Kim</i>	
Determination of Accident and Injury Probabilities reflecting Causal Relationship between Product Defect, Accident and Injury .....	27
<i>Jungdae Suh</i>	
Co-creation Knowledge Storage Model for Local Government Innovation....	33
<i>Hyung Rim Choi and Min Je Cho</i>	
Effects of Repeated Simulation-Exposure on Hospital Emergency Care .....	39
<i>Eun Hee Choi and Eun Hwi Kim</i>	
A Study on the agricultural supply adjustment models using NFC .....	45
<i>Jae-wan Park, Jung-chul Lee, Sun-yeob Kim</i>	
A Study of the factors affecting Life Satisfaction of Korean Youths .....	50
<i>Hye-Ryeon Yong, Ha-Na Kang, Hyun-Seok Hwang</i>	
A Dynamic Model for Valuing Customers: A Case Study .....	56
<i>Hyun-Seok Hwang</i>	
Clustering Corporate Brands Based on Social Metrics: A Case Study of the Cosmetic Brands .....	62
<i>Ha-Na Kang, Hye-Ryeon Yong, Hyun-Seok Hwang</i>	

A Study on Cardiovascula Disease Pattern Analysis for Clinical and Healthcare Recommending Service .....	68
<i>Young Sung Cho, Song Chul Moon, Kwang Sun Ryu, Keun Ho Ryu</i>	
Automated Farm Management Embedded System using Internet of Things .....	76
<i>Won Hyuck Choi, Min Seok Jie</i>	
Nursing Competency and Simulation Debriefing Evaluation according to Satisfaction in Major and Clinical Practice .....	80
<i>Eun Hee Choi</i>	
The effects of emotional labor and emotional Intelligence on burnout among psychological nurses .....	88
<i>Myoung-Jin Kwon, Young-Hee Kim</i>	
Selection Scheme for Public Art Center among Abandoned Buildings Applying GIS .....	93
<i>Aleksandra Volk, Heewon Lee</i>	
Study for Major Players and their Roles in Technology Commercialization Network Platform (TCNP).....	97
<i>Jongtaik Lee, Jeongsik Lee, Byungcheol Kim, Yun Jeong Choi</i>	
Study for information Issues for Small and Medium-sized Enterprises and Government Support System in Technology Commercialization Processes .....	101
<i>Yun Jeong Choi, Byungcheol Kim, Jeongsik Lee, Jongtaik Lee</i>	
Online Consumer's Shopping Motives of Personality and Shopping Values in the Lodging Industries .....	105
<i>Yun Ji Moon</i>	
Analysis of Simulation Requirements for Grid Connection Compatibility Assessment .....	109
<i>Mi-Young Kim and Dae-Seok Rho</i>	
Oral Vitamin Therapy Effects on Blood Homocysteine Level and Cognitive Functions in Elderlies with Mild Cognitive Impairment .....	114
<i>Lee, Hye Kyung</i>	
Death Anxiety and Communication Apprehension with the Dying among Nursing Students .....	121
<i>Hye-Young Kim, Sung-Joong Kim, Young-Ran Yeun</i>	

Effect of Organizational Culture on Nurses' Turnover Intention: The Mediating Effect of Workplace Bullying and Work Burnout.....	125
<i>Young-Ran Yeun, Jeong-Won Han</i>	
Effects of Nurses' Self-leadership and Organizational Culture on Customer Orientation: Focused on the Mediating Effect of Emotional Labor .....	129
<i>Jun-Hee Park, Jeong-Won Han, Young-Ran Yeun</i>	
Design of a Wide-band Low-voltage CMOS Filter for Wireless Transceiver Systems .....	133
<i>Barun Basnet, Junho Bang , Inho Ryu, Jeho Song, Woochoun Lee, Injae Lee, Myungjun Noh, Hyunjun Chun, Jongkil Lim, Jeonghun Kim, Hoyoung Kim</i>	
Impact of Stress, Family Strength and Health Care Competence on the Quality of Life in Maritime Students.....	139
<i>Jae-Hee Kim, Soong-nang Jang, Gie-ok Noh, Mi-Hyang Ahn</i>	
Conceptual GIS Application for Decision Making of Parking Site in Khabarovsk .....	145
<i>Irina Kulinich, Heewon Lee</i>	
The Wireless Electronic Noses and Mobile Devices Interoperation Based on Internet of Things Technology .....	149
<i>Jongwoo Choi, Jun Seok Park, SungJune Chang, Hae Ryong Lee, HunJoo Lee</i>	
The Relationship between Emotional Intelligence, Stress Coping, and Adjustment to College Life in Nursing Students.....	153
<i>SunSook Sim, Miran Bang</i>	
Study on the Effects of Trifluoromethyl Substitution into Poly (L-Lactide) for Improving Thermal Stability .....	160
<i>Sungchul Hong</i>	
Co-creation Models for the Resolution of Social Problems .....	164
<i>Soon Goo Hong, Hyun Jong Kim, Hyun Mi Lee and Na-Rang Kim</i>	
Design of Acceptance Test Process through Comparative Analysis of the Test Automation Technique.....	170
<i>Jung-Ah Shim, Hyun-Jung Kwon, Hyun-ju Jung and Moon-Sung Hwang</i>	

Implementation of a Compositional Microprogram Control Unit with e-DIA .....	175
<i>Young-Jin Oh, Gi-Yong Song</i>	
Computer music education - Comparison of Cubase and Logic program-....	181
<i>Tae-Seon Cho</i>	
Development of Home Visit Intervention Program for Holistic Healthcare Of Multi-cultural Couples.....	184
<i>Yeun-Mi Kim, Eun-Kwang Yoo, Myeong-Kyeong Song</i>	
Improvement of Assembly Tool for Modular Building Technology .....	189
<i>Tae-Yeong Kim, Seok Kim</i>	
A Study on Service Failure, Fairness and Satisfaction of Customers.....	194
<i>Ji-soo Park and Min Sun Kim</i>	
Development of Comprehensive web based learning Nursing Process Program on Linked NANDA, NOC and NIC.....	198
<i>Hwa Sun Kim, Sung Jung Sung Jung</i>	
Information Perception over Smart-phone Screen Transitions Styles .....	205
<i>Sang-Hak Kim, Young-Ju Lee</i>	
A Study on Content and Interaction Types on Smart-phone .....	208
<i>Ho-Eun Lee, Young-Ju Lee</i>	
Orientation and User Experience of Smart-phone Contents.....	211
<i>Ho-Eun Lee, Young-Ju Lee</i>	
Mobility Prediction to Select Reliable Relay Vehicles for Safety Message Broadcasting in VANETs .....	214
<i>Si-Ho Cha</i>	
A Study on Analysis of Clearwell in Water works by Computational Fluid Dynamics .....	217
<i>Jinhong Jung, Gyewoon Choi</i>	
Evaluation of Mechanical Characteristics and Microstructure of Surface Hardness Coating by Laser Cladding .....	223
<i>Hanseop Lee, Byungchul Lim, Sangheup Park</i>	

System Design on VTI for High-Speed Rolling Stock.....	227
<i>Young-Choon Kim, Moon-Taek Cho, Eum-Gi Kim, Youn Tea Kim, Hae-Jong Joo, Suk-Hwan Moon, Ok-Hwan Kim, Sang-Soo Kim</i>	
Design of the PWM Inverter Photovoltaics Tracking System for Maximum Efficiency .....	230
<i>Young-Choon Kim, Moon-Taek Cho, Chung-Sik Lee, Kab-Soo Kim, Ok-Hwan Kim, Sang-Soo Kim, Soon-Jik Hong</i>	
The study on the necessity of online safety education software Development for research staff.....	233
<i>Yuna Kwon, Young-Guk Kwon</i>	
Characteristics of Vibration and Noise from Vehicle Seat Rail .....	239
<i>Sung Yuk Kim, Oh Hwan Jeon, Key Sun Kim</i>	
What Factors Influence on the Work/Non-Work Interferences in the Context of Smart Work .....	243
<i>Sangjo Oh, Yong-Young Kim, Jong Man Lee</i>	
Study on the Environment of Strawberry Exports to Russia for Which an IoT based Reefer Container Monitoring System is Used .....	248
<i>Young Sik Moon, Jun Woo Jung, Sung Pill Choi, Jae Joong Kim and Hyung Rim Choi</i>	
Simulation Analysis of Mechanical Characteristics of Adhered Aluminum Foams with Varying Thickness Under Compressive Force.....	252
<i>Jung Ho Lee, Jae Ung Cho</i>	
Study on Simulation Analysis of DCB Aluminum Foam Adhesive Structures with Mode III-type.....	257
<i>Jung Ho Lee, Jae Ung Cho</i>	
A Comparative Study of the Deceptive Advertising in US, Japan and S. Korea.....	262
<i>Jae-Yung Cho</i>	
A Critical Review of the Regulations of Cosmetics Advertising in S. Korea .....	269
<i>Jae-Yung Cho</i>	
Algae removal characteristics by Light Irradiation Using Natural Coagulants .....	273
<i>Kwangho Ahn, I-tae Kim, Wonjae Kim, Hyunman Lim, Jinhong Jung</i>	

Security Enhancement of Cloud Service in E-Navigation Environment.....	278
<i>Donghyeok Lee, Namje Park</i>	
Pay for Performance of Hospital Nursing Employment in Korea .....	282
<i>Sukyong Seo, Sook-Ja Choi, Bohyun Park</i>	
Structural Change and Regional Innovation in an Industrial Cluster: Focusing on a Traditional Textile Industry of Nishijin in Kyoto City .....	287
<i>Tai Hun Lee, Soon Goo Hong</i>	
A Single-Process Design for Developing Automation Tools for Inspecting the Vulnerabilities of Android Applications .....	293
<i>Da-Woon Leem, Hyun-Ju Jung, Moon-Sung Hwang, Jung-Ah Shim, and Hyun-Jung Kwon</i>	
A Study of the Preference Survey on Waterfront Space Storytelling.....	299
<i>Ki-Bum Park, Seung Seop Ahn, MiJung Kim and So Yoon Park</i>	
A Study of Change in Rainfall by 24 Seasonal Terms .....	303
<i>Seung Seop Ahn, Ki-Bum Park, Kyosik Kim, DaeHeung Kim and Sangchul Moon</i>	
Predictors of Child Maltreatment in South Korea: Results from the 2011 Korea Youth and Child Panel .....	308
<i>Young Kwang Lee, Madhu Sudhan Atteraya, Eun Gu Ji</i>	
An analysis of gender difference regarding an effect that self-esteem in youth has on externalizing problem behavior -Focusing on the moderating effect of parental attachment- .....	313
<i>Minjoo Kim, Mijeong Cho, Eungu Ji</i>	
Teachers' perceptions regarding Boarding School Type Junior High Schools in Korea, with Special Reference to Their Achievements and to Future Policy Directions.....	317
<i>Young-Chool Choi, Ji-Hye Lee, Hye-Jeung Lee</i>	
An International Comparison of Higher Education Efficiency .....	322
<i>Min Hee Kim, Inhoi Lee and Sehee Oh</i>	
Comparative study of the conventional and optical communication analog fire detector signal attenuations with various number of fire detectors .....	326
<i>Ha-Sung Kong, Jong-Seog Yang, Kwang-Sun Kang</i>	

A Study on the Structural Performance of CFT Column with Inner-sided Corrugated Rib.....	339
<i>Dongoun Lee, Deageon Kim</i>	
Identifying Major Policy Issues Regarding the Smart Schooling System Using the Analytical Hierarchy Process Method.....	344
<i>Young-Chool Choi, Ji-Hye Lee, Hye-Jeung Lee</i>	
Development of smart phone applications linked with fire alarm control panel in automatic fire detection system .....	356
<i>Ha-Sung Kong, Jong-Seog Yang, Kwang-Sun Kang</i>	
Noise Elimination Method in automatic fire detection equipment in accordance with the communication distance.....	366
<i>Ha-Sung Kong, Kwang-Sun Kang, Jong-Seog Yang</i>	
A Study on Variation of Response according to Longitudinal Track-Bridge Interaction Analysis Methods .....	377
<i>Kyungmin Yun, Beomho Park, Hyunung Bae, Shinhyung Choi, Namhyoung Lim</i>	
Experimental Evaluation of Audio Watermarking Procedures for Mix Music .....	382
<i>Youngseok Lee, Jongweon Kim</i>	
Characteristics Evaluation of Data Transmission for Power Line Communication Using the Rail Track .....	386
<i>Seo, il kwun and Kim, Chul-Su</i>	
Studies on the Effect of Molecular Weight on the Degradation Rate of Biodegradable Polymer Membrane .....	390
<i>Yuying Xie, Jong-soon Park, Soon-kook Kang</i>	
Dynamic characteristic analysis of high pressure natural gas regulating Valve with Computational Fluid Dynamic Analysis .....	395
<i>Joon-Ho Lee, Han-Ik Park, Kyo-Jin Ann, Sung-Oug Lim, Young-Chul Park</i>	
A study on the recognition of oral cancer and oral health care in adults .....	400
<i>Sung-Joong Kim, Young-Ran Yeun, Hye-Young Kim</i>	

Study on the Logging Board for Advanced Safety Vehicle ECU Algorithm Verification.....	404
<i>Hyoung-Keun Park</i>	
Machine Vision System for Effective Semiconductor Package Sorting.....	408
<i>Hyoung-Keun Park</i>	
An Exploratory Study on the Theorization of a New Leisure and Tourism Information System Based on Information Communication Technology .....	412
<i>Woong-Ki Min and Jin-Hee Ku</i>	
Structural Relationships of Teaching Strategies, Learning Strategies and Reading Literacy Scores .....	416
<i>Inhoi Lee and Min Hee Kim</i>	
An Empirical Study on the Factors Impacting the Repurchase Intention of Cleaning Robots.....	421
<i>In-Ock, Lee, Myungsin Chae</i>	
Hyper Branched Helicenes: Synthesis, Characterization and its Application towards CO <sub>2</sub> Sorption .....	426
<i>Rajangam Vinodh, Cadium Mohan Babu, Aziz Abidov, Rramasamy Ravikumar, Mei Mei Peng, Muthiahpillai Palanichamy, Wang Seog Cha and Hyun Tae Jang</i>	
Removal of heavy metals using Amine crosslinked Reduced Graphene Oxide .....	430
<i>Cadium Mohan Babu, Rajangam Vinodh, Aziz Abidov, Rramaswamy Ravikumar, Mei Mei Peng, Wang Seog Cha and Hyun-Tae Jang</i>	
The Attrition Characteristics of Amine-grafted Solid Sorbents for CO <sub>2</sub> Capture in an ASTM Fluidized Bed .....	434
<i>Aziz Abidov, Vinodh Rajangam, Hanseok Oh, Mincheol Shin, Wang Seok Cha, Hyun Tae Jang</i>	
Constrained synthesis of 5-Fluorouracil entrapped poly amino alkyl siloxane, an organic in-organic hybrid.....	438
<i>Rramaswamy Ravikumar, Aziz Abidov, Mei Mei Peng, Cadium Mohan Babu, Rajangam Vinodh, Muthiahpillai Palanichamy, Eun Young Choi and Hyun-Tae Jang</i>	

A study on the effect of brand satisfaction, formed through user experiences with a smartphone, on the purchase of other smart devices of the same brand .....	444
<i>Minyoung Noh, Myungsin Chae, Byungtae Lee, Moonsoo Yoon</i>	
IFC-based information interoperability process for freeform building .....	449
<i>Jeongwon Ryu, Jiyong Lee, Jungsik Choi</i>	
Relationship of acculturation on stress, quality of life, self-esteem in Married Immigrant Women in Korea .....	453
<i>Sung Jung Hong, Ji Min Lee</i>	
The Aspects of Cross-media between Webtoon and Visual Media.....	459
<i>Chan-Ik Park</i>	
A Study on Measures for the Improvement of the Design VE System .....	462
<i>Hyun Ok, Choong-Han Han</i>	
A Multi-pass Coreference Resolution Model using Context Restriction .....	467
<i>Mei-ying Ren, Sinjae Kang</i>	
Fast Distance detection by using Lock-in-amplifier in Optical Scanning Holography .....	472
<i>Munseob Lee, Gihyeon Min, Nacwoo Kim, Byung-Tak Lee, and Je-Ho Song</i>	
A Hybrid-Type Plant Factory Using Sliding Cultivation Shelves.....	476
<i>Youngshik Kim, Bong-Jo Ryu and Soonbae Jung</i>	
The Study of Functional Strength Alteration of Senior by Customized Senior's Health Athletics Service .....	481
<i>Lee Mi Ran, Nam Hee Eun, Kim Seon Hee</i>	
A Study on Safety Culture in Aviation Maintenance Organization.....	485
<i>Chun-Yong Kim and Byung-Heum Song</i>	
Application of Mobile Mapping System for Indoor Geospatial Information Visualization.....	491
<i>Keun Wang Lee, Joon Kyu Park</i>	
A Measurement on the Impact of Jeju Pork by KOR-USA FTA .....	494
<i>Chung-hyeon Kim, Bae-sung Kim, Seong-Bo Ko</i>	

MQSPT-based Open SMS Architecture Design & Materialization .....	497
<i>Yong-Hee Lee, Jung-Ah Shim, Hyun-Jung Kwon, and Keun-Heui Kim</i>	
The Structural Relationship between Social Capital Dimensions and Performance in Distributional Channels .....	501
<i>Min-Sook Park, Jong-Kuk Shin, Yong Ju</i>	
Performance Evaluation of Mechanical Power Lumbar Support for passenger seat .....	505
<i>Key Sun Kim, Jin Woo Kim, Jung bin Lee</i>	
Cross level relationship between team level antecedents and individual innovation performance .....	509
<i>Su Jin Han, Yoo Jung Kim, and Sora Kang</i>	
The Research of Residents Need for Vision and Strategy Establishment in Yeongdo-gu .....	512
<i>Nam Hee Eun, Park JaeSung, Kim SeonHee, Lee MiRan, Bae EunSuk, Jang Junghyun, Moon JungHwa</i>	
Improving Energy Efficiency of Block-Matching Motion Estimation Using Dynamic Partial Reconfiguration.....	517
<i>Jooheung Lee and Jungwon Cho</i>	
Analysis of Critical Evacuation Condition on Inundated Stairs Using Numerical Simulation .....	522
<i>Du Han Lee, Myounghwan Kim and Dong Sop Rhee</i>	
Camera Image Interpolation using Directional Information.....	526
<i>Seungjong Kim</i>	
In-House Electronic Money Design Using Mobile Devices .....	531
<i>Hyun-Joo Kim, Soo-Jung Lee</i>	
Study on global market expansion strategy of domestic company – Revolve around investing overseas construction projects - .....	537
<i>Seung Wan Ju, Lee-Sang Jung</i>	
Design of Intelligent Blind Control System to Save Lighting Energy and Prevent Glare .....	541
<i>Mi-Ae Yu, Hyeong-Seok Kim, Yang-Soo Kim, Won-Il Seo, Young-Ho Kim, Dong-Geon Lee, Jae-Hyun Lim</i>	

A Study on Early Childhood Teachers' Needs, Job Stress and Teacher-Child Interaction for CCTV Installation .....	546
<i>Young-Sik Kang, Jungwon Cho</i>	
CFD Based Internal Fan Control Simulation for Improvement of Cultivation Environment in Plant Factory .....	550
<i>Min-Seon Baek, Kyeong-Mi Kim, Sook-Youn Kwon, Heontaek Kong, Jae-Hyun Lim</i>	
Development of High Speed Vision System to Calculate the Velocity Vector of Golf Ball .....	554
<i>Mehrdad Ahmadi, Jiyeon Lee, Kuk Won Ko, Sangjoon Lee</i>	
The Identification of Saponin to Obtain the Maximum Benefit from Aloe Saponaria .....	558
<i>Sun-Mi Choi, Destiani Supeno, Jae-Young Byun, Soon-Hong Kwon, Sung Won Chung, Soon-Goo Kwon, Do-Young Kwon, Won-Sik Choi</i>	
Visual Inspection System for the Defect of Collet .....	564
<i>Haji Hassani Roushanak, Jiyeon Lee, Kuk Won Ko, Sangjoon Lee</i>	
Effect of Aromatherapy on Elderly.....	569
<i>Hyun-suk Kim, Sukhee Kim, Yeon-suk Pak and Miyoung Kim</i>	
Comparison of work ethics between a beautician and college students majoring in beauty treatment .....	574
<i>Jang Junghyun, Nam Hee Eun</i>	
College Students' Self-esteem, Physical Image, Awareness of Gender Equality, and Outlook on Marriage .....	581
<i>Yeong-Hee Kim, Young-Mee Lee</i>	
The Effect of Magnetic Water Treatment on Milk Fat and Somatic Cell in Dairy Cow Production .....	587
<i>Hye-Sil Kim, Okka Adiyanto, Jae-Young Byun, Jong-Min Park, Jong-Soon Kim, Won-Sik Choi</i>	
Analysis of Current Policies and Service Situations for Overcoming Korea's Low Natality Rate Problem - Perspective of Creating a Society of Work-Life Balance - .....	593
<i>Seon Hee Kim, Hee Eun Nam, Mi Ran Lee, Eun Suk Bae</i>	

A Study on BIM Performance Assessment Framework for Architecture Firm.....	599
<i>Jihye Shin, Jungsik Choi</i>	
What is “Outline Signal Teaching Method”? .....	603
<i>Piao Chengri, Nan-Joo Lim, Jung-Hwan Park</i>	
Structural Tests and Analyses of H-Shaped Beam-to-Column Connections with Reformed T-stub Components.....	607
<i>Soomi Shin, Hyemin Kim, Hyunjung Park</i>	
The difference of Tympanic Temperature According to Insertion Methods of Tympanic thermometer Probe .....	612
<i>Seung-Kyo Chaung</i>	
Experimental study on cooling performance characteristics of coolant-sourced heat pump system with triple fluids heat exchanger for fuel cell electric vehicle .....	617
<i>Hoseong Lee, Jongphil Won, Chungwon Cho, Taekkyu Lim, Hanbyeol Jeon, Soobyeong Nam, Donggyun Kim, Yongchan Kim</i>	
Parameter Estimation of Rainfall-Runoff Model Using Hydrograph Section Separation .....	628
<i>Chung-Soo Kim, Cho-rong Kim</i>	
Analysis of coaches’ characteristics to be considered in the coaching process.....	634
<i>Mi-Sun Hong, Kyung-Cheol Lee, Jung-Hwan Park</i>	
Study on the possibility of integrating motivational interviewing and transtheoretical model for gambling addiction treatment .....	639
<i>Jung-Im Jang, Sung-Bong Kim</i>	
The Relationship among Career Plateau, Self-efficacy, Job Embeddedness and Turnover Intention of Nurses in Small and Medium Sized Hospitals .....	643
<i>Yu-Mi Kim, Kyung-Cheol Lee, Mi-Sun Hong</i>	
Experimental Study on the Performance Characteristics of an Air-Cooled LED Cooling System for Headlamp of a Passenger Vehicle.....	648
<i>Mahesh Suresh Patil, Jae-Hyeong Seo, You-Ma Bang, Moo-Yeon Lee</i>	

Children's Exposure to Domestic Violence and Violence Transfer toward their Peers and Parents.....	655
<i>InSungYoun, Madhu Sudhan Atteraya</i>	
The Issues of Korean Teachers' Mental Health.....	659
<i>JiEun Kim</i>	
A Study of IoT Node Discover and Registration Based on IETF CoAP Protocol.....	662
<i>Wen-Quan JIN, Yong-Geun Hong, and DoHyeun Kim</i>	
Efficient Optimization Approach Based on ACO Algorithm for Energy Management in Building Environment.....	666
<i>Azzaya Galbazar, Safdar Ali, and Do-Hyeun Kim</i>	
A System Architecture Based on Gateway for Monitoring Underground Facility .....	670
<i>Muhammad Sohail Khan, and DoHyeun Kim</i>	
A Study on the Development of Korea Certification System Framework for Cloud Service - Focusing on Security .....	674
<i>Hangoo Jeon, Young-Gi Min, Kwang-Kyu Seo</i>	
Semantic IoT System for Indoor Environment Control – A Sparql and SQL based hybrid model.....	678
<i>Faiza Tila, Do Hyuen Kim</i>	
Prediction Methodology of Energy Consumption Based on Random Forest Classifier in Korean Residential Apartments.....	684
<i>Fazli Wahid and Do-Hyeun Kim</i>	
2D Finite Element Method on the Scaling Law for Strip Footing.....	688
<i>Myungjae Lee and Heejung Youn</i>	
Job Stress and Stress Coping Strategies among Male and Female Korean Nurses .....	692
<i>Joohyun Lee</i>	
Development Case of a Core Competence Model for K-University Students from a LINC Viewpoint: A Case Study.....	696
<i>Byoung-Do Seo, Joung-Youl Ju, Won-Hwa Lee, Min-Kyoung Park</i>	

A study on the condensation heat transfer performance of condensers with internal fins and external plate fins of loop type two phase thermosyphon heatexchangers.....	701
<i>Dong-Hyun Cho</i>	
A Study on the Impact of University Students Career De-cision Level, Career Decision-making Self-efficacy and Career Preparation Behavior on Self determination .....	708
<i>Myeung-sin Park, Sang-hoon Han</i>	
U-Healthcare Development with the use of IT Convergence Mobility .....	713
<i>Regin Joy Conejar, Haeng-kon Kim</i>	
Internet of things (IoT) for U-healthcare Convergence Application .....	717
<i>Yvette Gelogo, Haeng-kon Kim</i>	
HARDMS: Management System for Distributed Clusters Based on Ambari, .....	721
<i>Changyi Yuan, Ruonan Rao</i>	
M2P2: the pre-processing software tool for Micro-Macro coupling fluid simulation .....	727
<i>Qian Wang, Wenjing Yang, Fu Li, Xiaoguang Ren, Yuhua Tang</i>	
Dynamic Page Layout Management for Efficient Big Data Analytics.....	735
<i>Kyounghyun Park, Choon Seo Park, Hee Sun Won</i>	
Virtualized Testbed Development using Openstack.....	742
<i>Byeongok Kwak, Heeyoung Jung</i>	
Robust Digital Watermarking for High-Definition Video using Steerable Pyramid Transform and Fast Fourier transformation .....	747
<i>Xun Jin, JongWeon Kim</i>	
Rotation-Invariant Image Watermarking Scheme Based on Radon Transform .....	753
<i>Ruichen Jin, Jongweon Kim</i>	
3D Mesh Model Segmentation Using Marching Plane .....	759
<i>Yiyu Hong, Jongweon Kim</i>	
Improvement of a music identification algorithm for time indexing.....	765
<i>Jeongseok Jo, Jongweon Kim</i>	

Numerical Simulation of Wind Flow and Pollution Transport in Urban Street Canyons .....	770
<i>Trong Nhan Nguyen, Thanh Chuyen Nguyen and Van Thinh Nguyen</i>	
Physical Based Inverse Rendering of 3D Faces from a Single Image .....	778
<i>Hongyi Zhang, Shuangjiu Xiao</i>	
Comparison of NER Performance Using Word Embeddings.....	784
<i>Miran Seok, Hye-Jeong Song, Chan-Young Park, Jong-Dae Kim, Yu-seop Kim</i>	
Find Alternative Biomarker via Word Embedding.....	789
<i>Kyeong-Min Nam, Hey-Jung Song, Jong-Dae Kim, Can-Young Park, Yu-Seop Kim</i>	
Wore Representation Analysis of Bio-marker and Disease word.....	793
<i>Young-Shin Youn, Kyung-Min Nam, Hye-Jeong Song, Jong-Dae Kim, Chan-Young Park, Yu-Seop Kim</i>	
Expansion of Feature Information for Korean Semantic Role Labeling .....	798
<i>Byeong-Cheol Jo, Mi-ran Seok, Hye-Jeong Song, Chan-Young Park, Jong-Dae Kim, Yu-seop Kim</i>	
Best Combination Looking for Ovarian Cancer .....	803
<i>Eun-Suk Yang, Jong-Dae Kim, Chan-Young Park, Hye-Jeong Song and Yu-Seop Kim</i>	
Devising Total Analysis Algorithm for Managing Safely LPG Facilities.....	807
<i>Jeong Seok Oh, Ji Hoon Park, Jae Lim Hur</i>	
The Support Method of Contents Considering User Log Data.....	813
<i>Yun-Young Hwang, Ga-Hyun Choi, Jeonghoon Park, Jungsun Yoon</i>	
Determining Variable Factors of Risk and Calculating Risk to Public Safety .....	818
<i>Donghyok Suh, Jeonghwa Song</i>	
Scalable ID-Based Communication .....	824
<i>Byeongok Kwak, Woojik Chun</i>	
Variable Window Operation Method to Respond to Context Reasoning .....	830
<i>Donghyeok Seoh, Younghwan Oh</i>	

A Practical Online Score Reporting with an Excel File in a Privacy Preserving Way .....	835
<i>Dongchang Yoo, Minyoung Bae, Yongjin Yeom</i>	
Identifying factors affecting value of Social Network Advertisement .....	843
<i>Jianjun Li, Jean Lai</i>	
Comparisons of various generations of the synthetic populations.....	850
<i>A. Taleei</i>	